# 1980 Joint Association Survey

## On Drilling Costs

DECEMBER, 1981 EDITION

SPONSORED BY:

- American Petroleum Institute
- Independent Petroleum Association of America
- Mid-Continent Oil & Gas Association

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# 1980 Joint Association Survey On Drilling Costs

**Statistics Department**

DECEMBER, 1981 EDITION

American
Petroleum
Institute

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## PREFACE

The purpose of the Joint Association Survey is to provide annual information pertaining to the cost of drilling oil and gas wells and dry holes in the United States.

Drilling costs for 1980 are presented in this issue of the JAS. Section II, pertaining to expenditures for finding, developing, and producing oil and gas, has been discontinued. Comparable data is available from the Annual Survey of Oil and Gas, Bureau of the Census.

As in prior years, data for the 1980 JAS were collected from the petroleum industry through the joint efforts of the American Petroleum Institute, the Independent Petroleum Association of America, and the Mid-Continent Oil and Gas Association.

Washington, D.C.
December 1981

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## JOINT ASSOCIATION SURVEY ON DRILLING COSTS—1980

**SUMMARY OF FINDINGS.** Findings pertaining to 1980 drilling costs and activity in the United States may be summarized as follows:

- The total cost of drilling and equipping oil and gas wells and dry holes in 1980 amounted to approximately $22,800 million, an increase of 41.8 over 1979.
- The average depth of oil wells completed in 1980 was 4,099, a decrease of 1.7 percent; the average cost per foot in 1980 was $66.36 an increase of 13.8 per cent over the previous year.
- The average depth of gas wells in 1980 was 5,636 feet, an increase of 2.6 per cent from 1979, the average cost per foot was $95.16 compared to $80.66 in 1979.
- The average depth of dry holes drilled in 1980 was 5,108 feet, a decrease of 2.8 per cent; the average cost per foot was $73.70 an increase of 14.1 per cent over 1979.
- The total number of wells drilled in 1980 increased 27.8 per cent and the total footage drilled increased 24.6 per cent.
- The total cost of offshore wells completed in 1980 amounted to over $3,846 million, an increase of 19.9 per cent over 1979. The total number of offshore wells increased 1.0 per cent over 1979 while the average depth virtually remained the same. The average cost per foot in 1980 was $307.62 an increase of 18.9 percent.
- The comparison of drilling activity and the cost of various types of wells completed in 1979 and 1980 is as follows:

| | Oil Wells | | Gas Wells | |
|---|---|---|---|---|
| | 1979 | 1980 | 1979 | 1980 |
| Wells Drilled | 19,243 | 28,553 | 14,079 | 15,225 |
| Footage Drilled (000) | 80,261 | 117,066 | 77,340 | 85,820 |
| Total Cost (millions)* | $4,679 | $7,768 | $6,238 | $8,167 |
| Average Depth (feet) | 4,170 | 4,099 | 5,493 | 5,636 |
| Average Cost Per Well* | $243,130 | $272,070 | $443,080 | $536,402 |
| Average Cost Per Foot* | $58.29 | $66.36 | $80.66 | $95.16 |

| | Dry Holes | | Total Wells | |
|---|---|---|---|---|
| | 1979 | 1980 | 1979 | 1980 |
| Wells Drilled | 15,201 | 18,233 | 48,523 | 62,011 |
| Footage Drilled (000) | 79,911 | 93,145 | 237,512 | 296,031 |
| Total Cost (millions)* | $5,162 | $6,865 | $16,079 | $22,800 |
| Average Depth (feet) | 5,256 | 5,108 | 4,894 | 4,773 |
| Average Cost Per Well* | $339,598 | $376,525 | $331,367 | $367,682 |
| Average Cost Per Foot* | $64.60 | $73.70 | $67.70 | $77.02 |

*Includes all costs incurred for drilling and equipping wells through the "Christmas tree"
NOTE: Totals may not agree with the sum of the individual items because of independent rounding.

**DESCRIPTION OF SURVEY.** The 1980 Joint Association Surveys (JAS) contains information on drilling costs derived from a sample of wells, footage, and costs collected from operators of different sizes who drilled wells in various areas of the United States. The drilling costs reported are those incurred for drilling and equipping wells through the "Christmas tree."

Estimates of drilling costs were derived by combining sample data with the 1980 drilling statistics as compiled by the American Petroleum Institute (API) and the Committee on Statistics of Drilling of the American Association of Petroleum Geologists (AAPG-CSD). The procedures for preparing these estimates for the 1980 JAS are described in the following sections.

**DEFINITIONS.** Copies of the 1980 questionnaire, instructions, definitions and maps showing geographic subdivisions may be found in Appendices, A, B, and G.

**The 1980 UNIVERSE.** In 1980 the API and the AAPG-CSD reported a total of 60,845 oil and gas wells and dry holes.* It was necessary to adjust the data reported in the *API Quarterly Review of Drilling Statistics (QRDS)* as follows:

1. *Adjustments Type I (Net).* Adjustments of this type represent:
   a. The elimination of old wells drilled deeper (and corresponding footage).
   b. The elimination of wells completed in 1979 (and corresponding footage), but reported in the QRDS in 1980.
   c. The elimination of sidetracked (bypassed) and redrill footage.
   d. The inclusion of wells completed in 1980, but not reported in the QRDS until 1981.
2. *Adjustments Type II (Net).* Total adjustments of this type represent:
   a. The elimination of wells previously reported in the 1979 JAS
   b. The inclusion of wells not reported in the QRDS but reported and confirmed by JAS respondents as actually drilled in 1980.

The adjustment of published data as outlined above resulted in a total of 62,011 oil and gas wells and dry holes (representing 296,030,956 feet) which constituted the drilling universe used for estimating total expenditures for 1980. (See Appendix C.)

*See *API QUARTERLY REVIEW OF DRILLING STATISTICS*, Vol. XIV, No. 4, February 1981, pp. 14–19.

**THE 1980 SAMPLE.** As in previous years, questionnaires were mailed to operators which were recorded as having drilled wells in the different areas of the United States during 1980. Replies to the Survey were contingent upon voluntary responses, with a continued effort being made to increase the sample size, particularly with respect to the smaller operators. An analysis of the number of companies (operators), classified by the number of wells drilled, included in the sample for the years 1976–1980 is shown in Appendix F.

The number of oil wells, gas wells, and dry holes reported to the JAS in 1979 and 1980 as percentages of total wells drilled in each of the six selected states is as follows:

| | Per Cent of Total | | | | | |
|---|---|---|---|---|---|---|
| | Oil Wells | | Gas Wells | | Dry Holes | |
| | 1979 | 1980 | 1979 | 1980 | 1979 | 1980 |
| California | 75 | 86 | 75 | 56 | 54 | 50 |
| Kansas | 33 | 31 | 52 | 48 | 35 | 34 |
| Louisiana | 63 | 49 | 44 | 54 | 49 | 50 |
| New Mexico | 69 | 62 | 72 | 78 | 48 | 47 |
| Oklahoma | 29 | 21 | 31 | 30 | 29 | 26 |
| Texas | 42 | 39 | 49 | 50 | 34 | 31 |

The following tabulation shows the total number of wells and footage reported to the JAS in 1979 and 1980 as compared to the wells and footage which comprised the JAS drilling universe for these two years.

| | 1979 Survey | | | 1980 Survey | | |
|---|---|---|---|---|---|---|
| | Total | Sample | Per Cent of Total | Total | Sample | Per Cent of Total |
| Oil Wells | 19,243 | 8,673 | 45.1 | 28,553 | 11,246 | 39.4 |
| Footage (thousands) | 80,261 | 40,957 | 51.0 | 117,066 | 54,200 | 46.3 |
| Total Cost (millions) | $4,679 | $2,845 | 60.8 | $7,768 | $4,365 | 56.2 |
| Gas Wells | 14,079 | 6,107 | 43.4 | 15,225 | 6,640 | 43.6 |
| Footage (thousands) | 77,340 | 41,050 | 53.1 | 85,820 | 45,312 | 52.8 |
| Total Cost (millions) | $6,238 | $4,003 | 64.2 | $8,167 | $5,303 | 64.9 |
| Dry Holes | 15,201 | 5,792 | 38.1 | 18,233 | 6,268 | 34.4 |
| Footage (thousands) | 79,911 | 38,100 | 47.7 | 93,145 | 42,034 | 45.1 |
| Total Cost (millions) | $5,162 | $3,219 | 62.4 | $6,865 | $4,265 | 62.1 |
| Total Wells | 48,523 | 20,572 | 42.4 | 62,011 | 24,154 | 39.0 |
| Footage (thousands) | 237,512 | 120,107 | 50.6 | 296,031 | 141,546 | 48.0 |
| Total Cost (millions) | $16,079 | $10,068 | 62.6 | $22,800 | $13,933 | 61.1 |

NOTE: Totals may not agree with the sum of the individual items because of independent rounding.

**DETERMINATION OF UNREPORTED WELLS AND FOOTAGE.** Individual wells (and footage) derived by adjustment of QRDS data were classified according to type of well (oil, gas or dry), location, and depth. Individual wells reported to the JAS were classified in like

manner. The wells and footage reported to the JAS in each category were subtracted from the number of wells and footage in corresponding categories for the adjusted universe. The difference represented the unreported wells and footage by type of well, location, and depth interval.

**ESTIMATION OF TOTAL COSTS.** The average cost per foot drilled in each category was computed on the basis of information reported to the JAS. Based on the sample wells reported for each area, least squares regression analysis was used to determine the functional relationship between the cost per foot and well depth for each type of well. (See Appendix H for a description of the methodology.)

The cost per foot for the unreported wells in each category was then estimated from the least squares analysis for each area. For the relatively few unreported wells falling outside the depth range of the sample, for which regression analysis did not provide meaningful estimates, cost estimates were based on an analysis of costs in similar areas and of prior years' data. This was necessary for approximately 2.3 percent of all unreported wells.

The cost per foot for the unreported wells was then multiplied by the unreported footage in each depth range to obtain the unreported cost for each category. Total estimated expenditures were obtained by adding the reported costs to estimated unreported costs.

**FINDINGS FOR 1980.** Cost data are shown in Tables 1–53 for the Total United States, Total Onshore United States, and Total Offshore United States as well as for Offshore Federal Waters and Gulf of Mexico—Northern.

Those wells drilled in the Offshore Alaska and Atlantic Coast Federal Waters are not shown separately to avoid disclosure of proprietary data, but are included in Table 52, "Offshore Federal Waters" on page 58. However, total wells, footage, and costs for these two areas are shown in Table 1.

In addition, expenditures are reported for the individual states and for the subdivisions of Alaska, California, Louisiana, New Mexico, and Texas.

**SUMMARY OF SAMPLE DATA FOR 1980.** Additional information concerning the cost of exploratory, development single completion, and multiple completion wells as reported to the Joint Association Survey is summarized for the United States in Appendices D and E.

Sample data in these four categories, summarized by depth intervals for individual states, may be purchased from the American Petroleum Institute on magnetic tape or in the form of a computer listing. Data in either format are summarized to the extent necessary to avoid disclosure of individual well costs.

Requests for price quotations should be directed to the Statistics Department, Office of the Director, American Petroleum Institute, 2101 L Street, Northwest, Washington, D.C. 20037. (Note: Orders will be accepted only for the complete summary.)

## TABLES CONTAINING FINDINGS

Please note that the average depth and cost per well have not been rounded upward on the following tables.

Table 1

## TOTAL NUMBER OF WELLS, FOOTAGE FOR OIL AND GAS WELLS, AND

| State | OIL WELLS | | | GAS WELLS | | |
|---|---|---|---|---|---|---|
| | Wells Drilled | Total Footage | Cost | Wells Drilled | Total Footage | Cost |
| Alabama | 29 | 165,158 | 20,186,662 | 63 | 294,359 | 37,298,347 |
| Alaska—Onshore | 121 | 1,267,897 | 356,745,107 | 4 | 25,778 | 27,905,239 |
| Alaska—Offshore | 1 | 11,753 | 2,333,887 | — | — | — |
| Alaska—Total | 122 | 1,279,650 | 359,078,994 | 4 | 25,778 | 27,905,239 |
| Arkansas | 215 | 1,029,826 | 48,163,000 | 118 | 706,434 | 52,263,007 |
| California—North | 4 | 14,302 | 1,332,424 | 74 | 474,852 | 33,146,967 |
| California—Central Coastal | 252 | 927,546 | 93,770,997 | 2 | 12,528 | 1,426,860 |
| California—East Central | 1,588 | 3,404,731 | 293,673,054 | 11 | 49,925 | 3,369,205 |
| California—South | 112 | 414,833 | 48,359,024 | — | — | — |
| California—Offshore | 94 | 556,143 | 119,286,506 | — | — | — |
| California—Total | 2,050 | 5,317,555 | 556,422,005 | 87 | 537,305 | 37,943,032 |
| Colorado | 298 | 1,722,723 | 80,181,565 | 537 | 2,802,021 | 163,288,658 |
| Florida | 10 | 138,249 | 19,604,991 | — | — | — |
| Illinois | 1,190 | 3,123,577 | 102,108,460 | 12 | 12,288 | 572,261 |
| Indiana | 316 | 675,065 | 18,032,097 | 45 | 48,419 | 1,281,166 |
| Kansas | 2,395 | 7,276,119 | 221,615,561 | 601 | 2,052,090 | 80,145,272 |
| Kentucky | 517 | 625,479 | 18,601,206 | 154 | 368,535 | 17,637,029 |
| Louisiana—North | 925 | 2,415,311 | 111,349,336 | 1,234 | 4,149,741 | 250,507,845 |
| Louisiana—South | 290 | 2,390,113 | 308,119,385 | 307 | 3,854,350 | 825,230,690 |
| Louisiana—Offshore | 178 | 1,818,179 | 555,423,204 | 299 | 3,074,546 | 974,701,229 |
| Louisiana—Total | 1,393 | 6,623,603 | 974,891,925 | 1,840 | 11,078,637 | 2,050,439,764 |
| Michigan | 208 | 863,603 | 54,082,394 | 58 | 247,656 | 17,431,079 |
| Mississippi | 170 | 1,337,524 | 99,552,034 | 73 | 992,256 | 188,131,871 |
| Montana | 211 | 1,448,057 | 127,504,277 | 195 | 353,314 | 13,795,146 |
| Nebraska | 180 | 841,763 | 28,343,285 | 3 | 12,397 | 449,073 |
| New Mexico—East | 553 | 2,710,659 | 183,591,113 | 294 | 2,631,683 | 238,363,992 |
| New Mexico—West | 149 | 891,362 | 63,528,634 | 780 | 4,341,331 | 233,454,942 |
| New Mexico—Total | 702 | 3,602,021 | 247,119,747 | 1,074 | 6,973,014 | 471,818,934 |
| North Dakota | 338 | 3,322,991 | 341,348,468 | 10 | 41,880 | 5,884,284 |
| Oklahoma | 4,758 | 19,738,653 | 1,135,618,224 | 1,929 | 12,485,790 | 1,189,381,926 |
| Texas—District 1 | 1,010 | 3,222,617 | 167,108,616 | 111 | 606,601 | 53,666,388 |
| Texas—District 2 | 119 | 728,468 | 37,570,003 | 314 | 2,125,849 | 178,203,079 |
| Texas—District 3 | 1,086 | 8,334,942 | 622,454,261 | 309 | 2,802,731 | 288,803,268 |
| Texas—District 4 | 199 | 1,034,793 | 58,253,340 | 688 | 5,664,370 | 625,663,432 |
| Texas—District 5 | 183 | 646,606 | 58,241,273 | 86 | 923,445 | 118,030,453 |
| Texas—District 6 | 231 | 1,270,411 | 70,073,004 | 328 | 3,138,824 | 319,573,025 |
| Texas—District 7B | 1,211 | 3,905,041 | 152,691,857 | 472 | 1,832,172 | 75,945,745 |
| Texas—District 7C | 846 | 4,691,304 | 237,407,156 | 432 | 2,921,010 | 128,724,252 |
| Texas—District 8 | 1,661 | 8,937,122 | 477,817,582 | 134 | 1,215,620 | 203,222,094 |
| Texas—District 8A | 1,116 | 5,854,124 | 278,979,727 | 13 | 74,336 | 3,288,633 |
| Texas—District 9 | 1,803 | 5,375,118 | 209,768,444 | 237 | 1,421,511 | 67,679,461 |
| Texas—District 10 | 442 | 1,999,043 | 108,941,424 | 294 | 2,486,848 | 205,947,700 |
| Texas—Offshore | 30 | 284,005 | 94,620,746 | 143 | 1,323,317 | 463,944,921 |
| Texas—Total | 9,937 | 46,283,594 | 2,574,027,433 | 3,561 | 26,536,634 | 2,732,692,451 |
| Utah | 69 | 437,058 | 57,879,518 | 92 | 592,784 | 62,313,012 |
| Wyoming | 577 | 4,025,188 | 389,110,515 | 230 | 2,363,045 | 409,288,937 |
| Appalachian* | 2,727 | 6,750,668 | 203,110,100 | 4,393 | 16,987,739 | 582,513,530 |
| Offshore Federal Waters | | | | | | |
| —Alaska | — | — | — | — | — | — |
| —Atlantic Coast | — | — | — | — | — | — |
| —Gulf of Mexico—Northern | 14 | 167,945 | 72,642,381 | 2 | 20,957 | 7,091,676 |
| —Total | 14 | 167,945 | 72,642,381 | 2 | 20,957 | 7,091,676 |
| Other United States** | 127 | 270,098 | 19,212,078 | 144 | 286,316 | 17,156,918 |
| Total United States—1980 | 28,553 | 117,066,167 | 7,768,436,920 | 15,225 | 85,819,648 | 8,166,722,612 |
| Total Exploratory Wells | 1,698 | 10,234,981 | 981,654,339 | 1,967 | 14,031,610 | 1,893,948,006 |
| Total Development Wells | 26,855 | 106,831,186 | 6,786,782,581 | 13,258 | 71,788,038 | 6,272,774,606 |

*Includes New York, Ohio, Pennsylvania, and West Virginia.
**Includes Arizona, Georgia, Idaho, Missouri, Nevada, Oregon, South Dakota, Tennessee, and Virginia.

## DRILLED AND ESTIMATED DRILLING COSTS
## DRY HOLES, BY STATE—1980

Table 1

| Dry Holes | | | Total Wells | | | |
|---|---|---|---|---|---|---|
| Wells Drilled | Total Footage | Cost | Wells Drilled | Total Footage | Cost | State |
| 104 | 783,921 | 67,934,828 | 196 | 1,243,436 | 125,419,837 | Alabama |
| 17 | 185,122 | 163,766,417 | 142 | 1,478,797 | 548,416,763 | Alaska—Onshore |
| — | — | — | 1 | 11,753 | 2,333,887 | Alaska—Offshore |
| 17 | 185,122 | 163,766,417 | 143 | 1,490,550 | 550,750,650 | Alaska—Total |
| 278 | 1,479,540 | 61,558,747 | 611 | 3,215,800 | 161,984,754 | Arkansas |
| 148 | 994,243 | 52,580,845 | 226 | 1,483,397 | 87,060,236 | California—North |
| 36 | 193,456 | 23,753,479 | 290 | 1,133,530 | 118,951,336 | California—Central Coastal |
| 111 | 631,608 | 57,146,432 | 1,710 | 4,086,264 | 354,188,691 | California—East Central |
| 17 | 109,397 | 13,206,714 | 129 | 524,230 | 61,565,738 | California—South |
| 17 | 112,615 | 25,709,540 | 111 | 669,758 | 144,996,046 | California—Offshore |
| 329 | 2,041,319 | 172,397,010 | 2,466 | 7,896,179 | 766,762,047 | California—Total |
| 497 | 2,505,843 | 86,487,346 | 1,332 | 7,030,587 | 329,957,569 | Colorado |
| 10 | 116,080 | 9,391,618 | 20 | 254,329 | 28,996,609 | Florida |
| 890 | 2,465,116 | 40,282,937 | 2,092 | 5,600,981 | 142,963,658 | Illinois |
| 352 | 652,057 | 10,966,290 | 713 | 1,375,541 | 30,279,553 | Indiana |
| 2,520 | 9,424,175 | 185,850,162 | 5,516 | 18,752,384 | 487,610,995 | Kansas |
| 664 | 886,620 | 21,519,615 | 1,335 | 1,880,634 | 57,757,850 | Kentucky |
| 786 | 3,726,999 | 153,184,126 | 2,945 | 10,292,051 | 515,041,307 | Louisiana—North |
| 731 | 8,427,830 | 1,188,836,719 | 1,328 | 14,672,293 | 2,322,186,794 | Louisiana—South |
| 330 | 3,491,150 | 923,459,013 | 807 | 8,383,875 | 2,453,583,446 | Louisiana—Offshore |
| 1,847 | 15,645,979 | 2,265,479,858 | 5,080 | 33,348,219 | 5,290,811,547 | Louisiana—Total |
| 357 | 1,728,679 | 80,210,761 | 623 | 2,839,938 | 151,724,234 | Michigan |
| 431 | 3,762,658 | 230,658,296 | 674 | 6,092,438 | 518,342,201 | Mississippi |
| 404 | 1,696,543 | 102,759,818 | 810 | 3,497,914 | 244,059,241 | Montana |
| 315 | 1,526,169 | 25,567,600 | 498 | 2,380,329 | 54,359,958 | Nebraska |
| 178 | 1,042,682 | 77,864,563 | 1,025 | 6,385,024 | 499,819,668 | New Mexico—East |
| 77 | 260,846 | 12,938,894 | 1,006 | 5,493,539 | 309,922,470 | New Mexico—West |
| 255 | 1,303,528 | 90,803,457 | 2,031 | 11,878,563 | 809,742,138 | New Mexico—Total |
| 227 | 2,011,480 | 165,267,284 | 575 | 5,376,351 | 512,500,036 | North Dakota |
| 2,245 | 10,420,011 | 593,490,993 | 8,932 | 42,644,454 | 2,918,491,143 | Oklahoma |
| 262 | 1,023,441 | 45,701,581 | 1,383 | 4,852,659 | 266,476,585 | Texas—District 1 |
| 328 | 2,105,391 | 134,924,275 | 761 | 4,959,708 | 350,797,357 | Texas—District 2 |
| 505 | 4,051,697 | 318,817,268 | 1,900 | 15,189,370 | 1,230,074,797 | Texas—District 3 |
| 456 | 3,002,184 | 166,533,230 | 1,343 | 9,701,347 | 850,450,002 | Texas—District 4 |
| 113 | 722,257 | 53,261,228 | 382 | 2,292,308 | 229,532,954 | Texas—District5 |
| 169 | 1,311,440 | 95,118,310 | 728 | 5,720,675 | 484,764,339 | Texas—District 6 |
| 1,291 | 3,958,067 | 102,195,576 | 2,974 | 9,695,280 | 330,833,178 | Texas—District 7B |
| 431 | 2,077,715 | 78,225,950 | 1,709 | 9,690,029 | 444,357,358 | Texas—District 7C |
| 228 | 1,560,567 | 111,215,670 | 2,023 | 11,713,309 | 792,255,346 | Texas—District 8 |
| 344 | 2,560,706 | 103,848,479 | 1,473 | 8,489,166 | 386,116,839 | Texas—District 8A |
| 935 | 3,121,152 | 75,438,825 | 2,975 | 9,917,781 | 352,886,730 | Texas—District 9 |
| 125 | 1,016,435 | 60,093,476 | 861 | 5,502,326 | 374,982,600 | Texas—District 10 |
| 139 | 1,356,565 | 435,651,478 | 312 | 2,963,887 | 994,217,145 | Texas—Offshore |
| 5,326 | 27,867,617 | 1,781,025,346 | 18,824 | 100,687,845 | 7,087,745,230 | Texas—Total |
| 117 | 632,591 | 141,583,320 | 278 | 1,662,433 | 261,775,850 | Utah |
| 515 | 3,992,783 | 282,539,347 | 1,322 | 10,381,016 | 1,080,938,799 | Wyoming |
| 326 | 1,177,838 | 47,832,495 | 7,446 | 24,916,245 | 833,456,125 | Appalachian* |
| | | | | | | Offshore Federal Waters |
| 5 | 57,303 | 55,132,862 | 5 | 57,303 | 55,132,862 | —Alaska |
| 4 | 64,492 | 47,140,876 | 4 | 64,492 | 47,140,876 | —Atlantic Coast |
| 16 | 164,305 | 69,160,546 | 32 | 353,207 | 148,894,603 | —Gulf of Mexico—Northern |
| 25 | 286,100 | 171,434,284 | 41 | 475,002 | 251,168,341 | —Total |
| 182 | 553,372 | 66,388,348 | 453 | 1,109,786 | 102,757,344 | Other United States** |
| 18,233 | 93,145,141 | 6,865,196,177 | 62,011 | 296,030,956 | 22,800,355,709 | Total United States—1980 |
| 8,492 | 49,264,344 | 4,348,609,947 | 12,157 | 73,530,935 | 7,224,212,292 | Total Exploratory Wells |
| 9,741 | 43,880,797 | 2,516,586,230 | 49,854 | 222,500,021 | 15,576,143,417 | Total Development Wells |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 2

TOTAL UNITED STATES *

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 4,827 | 654 | 1,739 | 7,220 | | | | |
| FOOTAGE | 0 - 1,249 | 4,108,838 | 612,046 | 1,300,652 | 6,021,536 | 851 | 935 | 747 | 834 |
| COSTS $ | | 152,542,330 | 21,795,699 | 40,175,144 | 214,513,173 | 31,601 | 33,326 | 23,102 | 29,710 |
| WELLS | | 5,480 | 2,487 | 2,612 | 10,579 | | | | |
| FOOTAGE | 1,250 - 2,499 | 10,025,459 | 5,043,529 | 4,918,154 | 19,987,142 | 1,829 | 2,027 | 1,882 | 1,889 |
| COSTS $ | | 402,123,579 | 176,710,962 | 141,320,964 | 720,155,505 | 73,380 | 71,053 | 54,104 | 68,074 |
| WELLS | | 5,788 | 2,553 | 3,516 | 11,857 | | | | |
| FOOTAGE | 2,500 - 3,749 | 18,104,177 | 8,211,019 | 11,116,198 | 37,431,394 | 3,127 | 3,216 | 3,161 | 3,156 |
| COSTS $ | | 747,964,947 | 336,666,661 | 293,126,447 | 1,377,758,055 | 129,226 | 131,870 | 83,369 | 116,197 |
| WELLS | | 3,811 | 2,596 | 3,105 | 9,512 | | | | |
| FOOTAGE | 3,750 - 4,999 | 16,758,524 | 11,146,446 | 13,457,348 | 41,362,318 | 4,397 | 4,293 | 4,334 | 4,348 |
| COSTS $ | | 748,325,113 | 457,966,412 | 382,020,307 | 1,588,311,832 | 196,359 | 176,412 | 123,033 | 166,979 |
| WELLS | | 4,102 | 3,032 | 3,426 | 10,560 | | | | |
| FOOTAGE | 5,000 - 7,499 | 25,035,509 | 18,435,234 | 20,899,206 | 64,369,949 | 6,103 | 6,080 | 6,100 | 6,095 |
| COSTS $ | | 1,407,472,820 | 1,045,851,351 | 840,713,491 | 3,294,037,662 | 343,118 | 344,937 | 245.392 | 311,935 |
| WELLS | | 3,374 | 1,784 | 1,861 | 7,019 | | | | |
| FOOTAGE | 7,500 - 9,999 | 29,167,118 | 15,397,654 | 16,057,568 | 60,622,340 | 8,644 | 8,630 | 8,628 | 8,636 |
| COSTS $ | | 2,237,017,845 | 1,380,861,805 | 1,055,076,149 | 4,672,955,799 | 663,016 | 774,025 | 566,940 | 665,758 |
| WELLS | | 825 | 1,216 | 1,088 | 3,129 | | | | |
| FOOTAGE | 10,000 - 12,499 | 9,053,829 | 13,419,413 | 12,099,841 | 34,573,083 | 10,974 | 11,035 | 11,121 | 11,049 |
| COSTS $ | | 1,142,553,908 | 1,737,117,489 | 1,337,322,640 | 4,216,994,037 | 1,384,913 | 1,428,550 | 1,229,156 | 1,347,713 |
| WELLS | | 279 | 534 | 522 | 1,335 | | | | |
| FOOTAGE | 12,500 - 14,999 | 3,721,742 | 7,230,554 | 7,069,911 | 18,022,207 | 13,339 | 13,540 | 13,543 | 13,499 |
| COSTS $ | | 624,379,867 | 1,295,489,609 | 1,152,672,060 | 3,072,541,536 | 2,237,920 | 2,426,010 | 2,208,184 | 2,301,529 |
| WELLS | | 58 | 257 | 252 | 567 | | | | |
| FOOTAGE | 15,000 - 17,499 | 926,528 | 4,129,652 | 4,067,088 | 9,123,268 | 15,974 | 16,068 | 16,139 | 16,090 |
| COSTS $ | | 239,241,569 | 963,758,719 | 961,216,532 | 2,164,216,820 | 4,124,854 | 3,750,033 | 3,814,351 | 3,816,960 |
| WELLS | | 8 | 67 | 77 | 153 | | | | |
| FOOTAGE | 17,500 - 19,999 | 144,443 | 1,242,167 | 1,415,858 | 2,822,468 | 18,271 | 18,539 | 18,387 | 18,447 |
| COSTS $ | | 66,814,942 | 373,352,147 | 365,985,751 | 806,152,840 | 7,423,882 | 5,572,420 | 4,753,061 | 5,268,972 |
| WELLS | | | 45 | 35 | 80 | | | | |
| FOOTAGE | 20,000 & OVER | | 951,934 | 743,317 | 1,695,251 | + | 21,154 | 21,237 | 21,190 |
| COSTS $ | | | 377,151,758 | 295,566,692 | 672,718,450 | + | 8,381,150 | 8,444,762 | 8,408,980 |
| TOTAL WELLS | | 28,553 | 15,225 | 18,233 | 62,011 | | | | |
| TOTAL FOOTAGE | | 117,066,167 | 85,819,648 | 93,145,141 | 296,030,956 | 4,099 | 5,636 | 5,108 | 4,773 |
| TOTAL COSTS $ | | 7,769,436,920 | 8,166,722,612 | 6,865,196,177 | 22,800,355,709 | 272,070 | 536,402 | 376,525 | 367,682 |

*Includes the following states and areas which are not shown separately: Arizona, Georgia, Idaho, Missouri, Nevada, Oregon, South Dakota, Tennessee, Virginia, Offshore Federal Waters-Alaska, and Offshore Federal Waters-Atlantic Coast

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 3

TOTAL OFFSHORE *

| DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|
| | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | | 3 | 3 | | | | |
| FOOTAGE 0 - 1,249 | | | 3,167 | 3,167 | + | + | 1,055 | 1,055 |
| COSTS $ | | | 2,142,238 | 2,142,238 | + | + | 714,079 | 714,079 |
| WELLS | | 2 | 4 | 6 | | | | |
| FOOTAGE 1,250 - 2,499 | | 4,565 | 8,537 | 13,102 | + | 2,282 | 2,134 | 2,183 |
| COSTS $ | | 2,116,746 | 3,370,533 | 5,487,279 | + | 1,058,373 | 842,633 | 914,546 |
| WELLS | 11 | 7 | 9 | 27 | | | | |
| FOOTAGE 2,500 - 3,749 | 34,737 | 23,734 | 28,647 | 87,118 | 3,157 | 3,390 | 3,183 | 3,226 |
| COSTS $ | 6,800,504 | 10,477,212 | 8,705,835 | 25,983,551 | 618,227 | 1,496,744 | 967,315 | 962,353 |
| WELLS | 36 | 15 | 14 | 65 | | | | |
| FOOTAGE 3,750 - 4,999 | 157,590 | 64,504 | 60,396 | 282,490 | 4,377 | 4,300 | 4,314 | 4,346 |
| COSTS $ | 27,768,930 | 34,612,193 | 15,893,893 | 78,275,016 | 771,359 | 2,307,479 | 1,135,278 | 1,204,231 |
| WELLS | 63 | 73 | 78 | 214 | | | | |
| FOOTAGE 5,000 - 7,499 | 399,807 | 460,191 | 506,318 | 1,366,316 | 6,346 | 6,303 | 6,491 | 6,384 |
| COSTS $ | 95,441,836 | 146,511,672 | 114,239,276 | 356,192,784 | 1,514,949 | 2,007,009 | 1,464,606 | 1,664,452 |
| WELLS | 94 | 121 | 125 | 340 | | | | |
| FOOTAGE 7,500 - 9,999 | 816,791 | 1,073,416 | 1,091,589 | 2,981,796 | 8,689 | 8,871 | 8,732 | 8,769 |
| COSTS $ | 213,239,526 | 331,532,560 | 223,598,244 | 768,370,330 | 2,268,505 | 2,739,938 | 1,788,785 | 2,259,912 |
| WELLS | 61 | 139 | 152 | 352 | | | | |
| FOOTAGE 10,000 - 12,499 | 690,269 | 1,548,295 | 1,692,678 | 3,931,242 | 11,315 | 11,138 | 11,136 | 11,168 |
| COSTS $ | 222,476,729 | 453,121,877 | 450,495,061 | 1,126,093,667 | 3,647,159 | 3,259,869 | 2,963,783 | 3,199,129 |
| WELLS | 38 | 61 | 77 | 176 | | | | |
| FOOTAGE 12,500 - 14,999 | 514,288 | 826,148 | 1,046,067 | 2,386,503 | 13,533 | 13,543 | 13,585 | 13,559 |
| COSTS $ | 182,446,626 | 292,442,483 | 379,653,961 | 854,543,070 | 4,801,227 | 4,794,139 | 4,930,570 | 4,855,358 |
| WELLS | 13 | 24 | 41 | 78 | | | | |
| FOOTAGE 15,000 - 17,499 | 206,638 | 380,503 | 658,145 | 1,245,286 | 15,895 | 15,854 | 16,052 | 15,965 |
| COSTS $ | 87,870,517 | 159,779,951 | 282,764,931 | 530,415,399 | 6,759,270 | 6,657,497 | 6,896,705 | 6,800,197 |
| WELLS | 1 | 2 | 6 | 9 | | | | |
| FOOTAGE 17,500 - 19,999 | 17,905 | 37,464 | 109,988 | 165,357 | 17,905 | 18,732 | 18,331 | 18,373 |
| COSTS $ | 8,262,056 | 15,143,132 | 58,581,921 | 81,987,109 | 8,262,056 | 7,571,566 | 9,763,653 | 9,109,678 |
| WELLS | | | 2 | 2 | | | | |
| FOOTAGE 20,000 & OVER | | | 40,898 | 40,898 | + | + | 20,449 | 20,449 |
| COSTS $ | | | 16,808,422 | 16,808,422 | + | + | 8,404,211 | 8,404,211 |
| TOTAL WELLS | 317 | 444 | 511 | 1,272 | | | | |
| TOTAL FOOTAGE | 2,838,025 | 4,418,820 | 5,246,430 | 12,503,275 | 8,952 | 9,952 | 10,266 | 9,829 |
| TOTAL COSTS $ | 844,306,724 | 1,445,737,826 | 1,556,254,315 | 3,846,298,865 | 2,663,428 | 3,256,166 | 3,045,507 | 3,023,819 |

*Includes the following areas which are not shown separately: Offshore Federal Waters-Alaska and Offshore Federal Waters-Atlantic Coast

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 4

## TOTAL ONSHORE *

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 4,827 | 654 | 1,736 | 7,217 | | | | |
| FOOTAGE | 0 - 1,249 | 4,108,838 | 612,046 | 1,297,485 | 6,018,369 | 851 | 935 | 747 | 833 |
| COSTS $ | | 152,542,330 | 21,795,699 | 38,032,906 | 212,370,935 | 31,601 | 33,326 | 21,908 | 29,426 |
| WELLS | | 5,480 | 2,485 | 2,608 | 10,573 | | | | |
| FOOTAGE | 1,250 - 2,499 | 10,025,459 | 5,038,964 | 4,909,617 | 19,974,040 | 1,829 | 2,027 | 1,882 | 1,889 |
| COSTS $ | | 402,123,579 | 174,594,216 | 137,950,431 | 714,668,226 | 73,380 | 70,259 | 52,895 | 67,593 |
| WELLS | | 5,777 | 2,546 | 3,507 | 11,830 | | | | |
| FOOTAGE | 2,500 - 3,749 | 18,069,440 | 8,187,285 | 11,087,551 | 37,344,276 | 3,127 | 3,215 | 3,161 | 3,156 |
| COSTS $ | | 741,164,443 | 326,189,449 | 284,420,612 | 1,351,774,504 | 128,295 | 128,118 | 81,100 | 114,266 |
| WELLS | | 3,775 | 2,581 | 3,091 | 9,447 | | | | |
| FOOTAGE | 3,750 - 4,999 | 16,600,934 | 11,081,942 | 13,396,952 | 41,079,828 | 4,397 | 4,293 | 4,334 | 4,348 |
| COSTS $ | | 720,556,183 | 423,354,219 | 366,126,414 | 1,510,036,816 | 190,875 | 164,027 | 118,449 | 159,842 |
| WELLS | | 4,039 | 2,959 | 3,348 | 10,346 | | | | |
| FOOTAGE | 5,000 - 7,499 | 24,635,702 | 17,975,043 | 20,392,888 | 63,003,633 | 6,099 | 6,074 | 6,091 | 6,089 |
| COSTS $ | | 1,312,030,984 | 699,339,679 | 726,474,215 | 2,937,844,878 | 324,840 | 303,933 | 216,987 | 283,959 |
| WELLS | | 3,280 | 1,663 | 1,736 | 6,679 | | | | |
| FOOTAGE | 7,500 - 9,999 | 28,350,327 | 14,324,238 | 14,965,979 | 57,640,544 | 8,643 | 8,613 | 8,620 | 8,630 |
| COSTS $ | | 2,023,778,319 | 1,049,329,245 | 831,477,905 | 3,904,585,469 | 617,005 | 630,985 | 478,961 | 584,606 |
| WELLS | | 764 | 1,077 | 936 | 2,777 | | | | |
| FOOTAGE | 10,000 - 12,499 | 8,363,560 | 11,871,118 | 10,407,163 | 30,641,841 | 10,947 | 11,022 | 11,118 | 11,034 |
| COSTS $ | | 920,077,179 | 1,283,995,612 | 886,827,579 | 3,090,900,370 | 1,204,289 | 1,192,196 | 947,465 | 1,113,035 |
| WELLS | | 241 | 473 | 445 | 1,159 | | | | |
| FOOTAGE | 12,500 - 14,999 | 3,207,454 | 6,404,406 | 6,023,844 | 15,635,704 | 13,308 | 13,539 | 13,536 | 13,490 |
| COSTS $ | | 441,933,241 | 1,003,047,126 | 773,018,099 | 2,217,998,466 | 1,833,747 | 2,120,607 | 1,737,119 | 1,913,717 |
| WELLS | | 45 | 233 | 211 | 489 | | | | |
| FOOTAGE | 15,000 - 17,499 | 719,890 | 3,749,149 | 3,408,943 | 7,877,982 | 15,997 | 16,090 | 16,156 | 16,110 |
| COSTS $ | | 151,371,052 | 803,978,768 | 678,451,601 | 1,633,801,421 | 3,363,801 | 3,450,552 | 3,215,410 | 3,341,107 |
| WELLS | | 8 | 65 | 71 | 144 | | | | |
| FOOTAGE | 17,500 - 19,999 | 146,538 | 1,204,703 | 1,305,870 | 2,657,111 | 18,317 | 18,533 | 18,392 | 18,452 |
| COSTS $ | | 58,552,886 | 358,209,015 | 307,403,830 | 724,165,731 | 7,319,110 | 5,510,907 | 4,329,631 | 5,028,928 |
| WELLS | | | 45 | 33 | 78 | | | | |
| FOOTAGE | 20,000 & OVER | | 951,934 | 702,419 | 1,654,353 | + | 21,154 | 21,285 | 21,209 |
| COSTS $ | | | 377,151,758 | 278,758,270 | 655,910,028 | + | 8,381,150 | 8,447,220 | 8,409,102 |
| TOTAL WELLS | | 28,236 | 14,781 | 17,722 | 60,739 | | | | |
| TOTAL FOOTAGE | | 114,228,142 | 81,400,828 | 87,898,711 | 283,527,681 | 4,045 | 5,507 | 4,959 | 4,667 |
| TOTAL COSTS $ | | 6,924,130,196 | 6,720,984,786 | 5,308,941,862 | 18,954,056,844 | 245,223 | 454,704 | 299,567 | 312,057 |

*Includes the following states and areas which are not shown separately: Arizona, Georgia, Idaho, Missouri Nevada, Oregon, South Dakota, Tennessee, and Virginia Note: Includes Alaska-Onshore

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 5

## ALABAMA

| DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|
| | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | | | | | | | |
| FOOTAGE 0 - 1,249 | | | | | * | * | * | * |
| COSTS $ | | | | | * | * | * | * |
| WELLS | 7 | 13 | 28 | 48 | | | | |
| FOOTAGE 1,250 - 2,499 | 16,352 | 28,548 | 51,714 | 96,614 | 2,336 | 2,196 | 1,846 | 2,012 |
| COSTS $ | 1,122,249 | 3,925,445 | 4,033,375 | 9,081,069 | 160,321 | 301,957 | 144,049 | 189,148 |
| WELLS | 7 | 24 | 21 | 52 | | | | |
| FOOTAGE 2,500 - 3,749 | 20,292 | 68,464 | 64,252 | 153,008 | 2,898 | 2,852 | 3,059 | 2,942 |
| COSTS $ | 1,455,693 | 5,733,322 | 2,846,919 | 10,035,934 | 207,956 | 238,888 | 135,567 | 192,998 |
| WELLS | 6 | 16 | 6 | 28 | | | | |
| FOOTAGE 3,750 - 4,999 | 24,541 | 74,753 | 24,697 | 123,991 | 4,090 | 4,672 | 4,116 | 4,428 |
| COSTS $ | 1,443,058 | 5,172,011 | 934,485 | 7,549,554 | 240,509 | 323,250 | 155,747 | 269,626 |
| WELLS | 4 | 4 | 8 | 16 | | | | |
| FOOTAGE 5,000 - 7,499 | 22,556 | 20,355 | 46,960 | 89,871 | 5,639 | 5,088 | 5,870 | 5,616 |
| COSTS $ | 1,276,322 | 1,556,979 | 2,603,321 | 5,436,622 | 319,080 | 389,244 | 325,415 | 339,788 |
| WELLS | | | 1 | 1 | | | | |
| FOOTAGE 7,500 - 9,999 | | | 8,430 | 8,430 | * | * | 8,430 | 8,430 |
| COSTS $ | | | 380,714 | 380,714 | * | * | 380,714 | 380,714 |
| WELLS | | | 6 | 6 | | | | |
| FOOTAGE 10,000 - 12,499 | | | 68,854 | 68,854 | * | * | 11,475 | 11,475 |
| COSTS $ | | | 3,612,339 | 3,612,339 | * | * | 602,056 | 602,056 |
| WELLS | 2 | | 19 | 21 | | | | |
| FOOTAGE 12,500 - 14,999 | 28,364 | | 253,899 | 282,263 | 14,182 | * | 13,363 | 13,441 |
| COSTS $ | 2,924,629 | | 18,265,328 | 21,189,957 | 1,462,314 | * | 961,333 | 1,009,045 |
| WELLS | 1 | 3 | 7 | 11 | | | | |
| FOOTAGE 15,000 - 17,499 | 16,000 | 46,611 | 112,679 | 175,290 | 16,000 | 15,537 | 16,097 | 15,935 |
| COSTS $ | 3,932,885 | 7,149,417 | 10,266,088 | 21,348,390 | 3,932,885 | 2,383,139 | 1,466,584 | 1,940,762 |
| WELLS | 2 | 3 | 7 | 12 | | | | |
| FOOTAGE 17,500 - 19,999 | 37,053 | 55,628 | 132,376 | 225,057 | 18,526 | 18,542 | 18,910 | 18,754 |
| COSTS $ | 8,031,826 | 13,761,173 | 20,378,080 | 42,171,079 | 4,015,913 | 4,587,057 | 2,911,154 | 3,514,256 |
| WELLS | | | 1 | 1 | | | | |
| FOOTAGE 20,000 & OVER | | | 20,060 | 20,060 | * | * | 20,060 | 20,060 |
| COSTS $ | | | 4,614,179 | 4,614,179 | * | * | 4,614,179 | 4,614,179 |
| TOTAL WELLS | 29 | 63 | 104 | 196 | | | | |
| TOTAL FOOTAGE | 165,158 | 294,359 | 783,921 | 1,243,438 | 5,695 | 4,672 | 7,537 | 6,344 |
| TOTAL COSTS $ | 20,186,662 | 37,298,347 | 67,934,828 | 125,419,837 | 696,091 | 592,037 | 653,219 | 639,897 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 6

## ALASKA - TOTAL

| DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|
| | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| 0 - 1,249 | | | | | | | | |
| WELLS | | | | | + | + | + | + |
| FOOTAGE | | | | | + | + | + | + |
| COSTS $ | | | | | | | | |
| 1,250 - 2,499 | | 2 | | 2 | | | | |
| WELLS | | 4,363 | | 4,363 | + | 2,181 | + | 2,181 |
| FOOTAGE | | 2,576,262 | | 2,576,262 | + | 1,288,131 | + | 1,288,131 |
| COSTS $ | | | | | | | | |
| 2,500 - 3,749 | | | 1 | 1 | | | | |
| WELLS | | | 3,666 | 3,666 | + | + | 3,666 | 3,666 |
| FOOTAGE | | | 3,293,238 | 3,293,238 | + | + | 3,293,238 | 3,293,238 |
| COSTS $ | | | | | | | | |
| 3,750 - 4,999 | | | 1 | 1 | | | | |
| WELLS | | | 4,170 | 4,170 | + | + | 4,170 | 4,170 |
| FOOTAGE | | | 1,651,132 | 1,651,132 | + | + | 1,651,132 | 1,651,132 |
| COSTS $ | | | | | | | | |
| 5,000 - 7,499 | 4 | 1 | 1 | 6 | | | | |
| WELLS | 28,185 | 7,290 | 5,678 | 41,153 | 7,046 | 7,290 | 5,678 | 6,858 |
| FOOTAGE | 12,933,250 | 2,947,807 | 4,109,558 | 19,990,615 | 3,233,312 | 2,947,807 | 4,109,558 | 3,331,769 |
| COSTS $ | | | | | | | | |
| 7,500 - 9,999 | 43 | | 4 | 47 | | | | |
| WELLS | 399,071 | | 32,748 | 431,819 | 9,280 | + | 8,187 | 9,187 |
| FOOTAGE | 107,037,634 | | 24,788,267 | 131,825,901 | 2,489,247 | + | 6,197,066 | 2,804,806 |
| COSTS $ | | | | | | | | |
| 10,000 - 12,499 | 66 | | 4 | 70 | | | | |
| WELLS | 733,530 | | 45,675 | 779,205 | 11,114 | + | 11,418 | 11,131 |
| FOOTAGE | 198,074,696 | | 18,648,570 | 216,723,266 | 3,001,131 | + | 4,662,142 | 3,096,046 |
| COSTS $ | | | | | | | | |
| 12,500 - 14,999 | 9 | 1 | 2 | 12 | | | | |
| WELLS | 118,864 | 14,125 | 26,684 | 159,673 | 13,207 | 14,125 | 13,342 | 13,306 |
| FOOTAGE | 41,033,414 | 22,381,170 | 32,109,501 | 95,524,085 | 4,559,268 | 22,381,170 | 16,054,750 | 7,960,340 |
| COSTS $ | | | | | | | | |
| 15,000 - 17,499 | | | 3 | 3 | | | | |
| WELLS | | | 46,166 | 46,166 | + | + | 15,388 | 15,388 |
| FOOTAGE | | | 48,821,084 | 48,821,084 | + | + | 16,273,694 | 16,273,694 |
| COSTS $ | | | | | | | | |
| 17,500 - 19,999 | | | | | | | | |
| WELLS | | | | | + | + | + | + |
| FOOTAGE | | | | | + | + | + | + |
| COSTS $ | | | | | | | | |
| 20,000 & OVER | | | 1 | 1 | | | | |
| WELLS | | | 20,335 | 20,335 | + | + | 20,335 | 20,335 |
| FOOTAGE | | | 30,345,067 | 30,345,067 | + | + | 30,345,067 | 30,345,067 |
| COSTS $ | | | | | | | | |
| TOTAL WELLS | 122 | 4 | 17 | 143 | | | | |
| TOTAL FOOTAGE | 1,279,650 | 25,776 | 185,122 | 1,490,550 | 10,488 | 6,444 | 10,889 | 10,423 |
| TOTAL COSTS $ | 359,078,994 | 27,905,239 | 163,766,417 | 550,750,650 | 2,943,270 | 6,976,309 | 9,633,318 | 3,851,403 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 7

## ALASKA - ONSHORE

| DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|
| | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| 0 - 1,249 | | | | | | | | |
| WELLS | | | | | + | + | + | + |
| FOOTAGE | | | | | + | + | + | + |
| COSTS $ | | | | | | | | |
| 1,250 - 2,499 | | | | | | | | |
| WELLS | | 2 | | 2 | | | | |
| FOOTAGE | | 4,363 | | 4,363 | + | 2,181 | + | 2,181 |
| COSTS $ | | 2,576,262 | | 2,576,262 | + | 1,288,131 | + | 1,288,131 |
| 2,500 - 3,749 | | | | | | | | |
| WELLS | | | 1 | 1 | | | | |
| FOOTAGE | | | 3,666 | 3,666 | + | + | 3,666 | 3,666 |
| COSTS $ | | | 3,293,238 | 3,293,238 | + | + | 3,293,238 | 3,293,238 |
| 3,750 - 4,999 | | | | | | | | |
| WELLS | | | 1 | 1 | | | | |
| FOOTAGE | | | 4,170 | 4,170 | + | + | 4,170 | 4,170 |
| COSTS $ | | | 1,651,132 | 1,651,132 | + | + | 1,651,132 | 1,651,132 |
| 5,000 - 7,499 | | | | | | | | |
| WELLS | 4 | 1 | 1 | 6 | | | | |
| FOOTAGE | 28,185 | 7,290 | 5,678 | 41,153 | 7,046 | 7,290 | 5,678 | 6,858 |
| COSTS $ | 12,933,250 | 2,947,807 | 4,109,558 | 19,990,615 | 3,233,312 | 2,947,807 | 4,109,558 | 3,331,769 |
| 7,500 - 9,999 | | | | | | | | |
| WELLS | 43 | | 4 | 47 | | | | |
| FOOTAGE | 399,071 | | 32,748 | 431,819 | 9,280 | + | 8,187 | 9,187 |
| COSTS $ | 107,037,634 | | 24,788,267 | 131,825,901 | 2,489,247 | + | 6,197,066 | 2,804,806 |
| 10,000 - 12,499 | | | | | | | | |
| WELLS | 65 | | 4 | 69 | | | | |
| FOOTAGE | 721,777 | | 45,675 | 767,452 | 11,104 | + | 11,418 | 11,122 |
| COSTS $ | 195,740,809 | | 18,648,570 | 214,389,379 | 3,011,397 | + | 4,662,142 | 3,107,092 |
| 12,500 - 14,999 | | | | | | | | |
| WELLS | 9 | 1 | 2 | 12 | | | | |
| FOOTAGE | 118,864 | 14,125 | 26,684 | 159,673 | 13,207 | 14,125 | 13,342 | 13,306 |
| COSTS $ | 41,033,414 | 22,381,170 | 32,109,501 | 95,524,085 | 4,559,268 | 22,381,170 | 16,054,750 | 7,960,340 |
| 15,000 - 17,499 | | | | | | | | |
| WELLS | | | 3 | 3 | | | | |
| FOOTAGE | | | 46,166 | 46,166 | + | + | 15,388 | 15,388 |
| COSTS $ | | | 48,821,084 | 48,821,084 | + | + | 16,273,694 | 16,273,694 |
| 17,500 - 19,999 | | | | | | | | |
| WELLS | | | | | | | | |
| FOOTAGE | | | | | + | + | + | + |
| COSTS $ | | | | | + | + | + | + |
| 20,000 & OVER | | | | | | | | |
| WELLS | | | 1 | 1 | | | | |
| FOOTAGE | | | 20,335 | 20,335 | + | + | 20,335 | 20,335 |
| COSTS $ | | | 30,345,067 | 30,345,067 | + | + | 30,345,067 | 30,345,067 |
| TOTAL WELLS | 121 | 4 | 17 | 142 | | | | |
| TOTAL FOOTAGE | 1,267,897 | 25,778 | 185,122 | 1,478,797 | 10,478 | 6,444 | 10,889 | 10,414 |
| TOTAL COSTS $ | 356,745,107 | 27,905,239 | 163,766,417 | 548,416,763 | 2,948,306 | 6,976,309 | 9,633,318 | 3,862,089 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 8

## ALASKA - OFFSHORE

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | | | | | | | | |
| FOOTAGE | 0 - 1,249 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 1,250 - 2,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 2,500 - 3,749 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 3,750 - 4,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 5,000 - 7,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 7,500 - 9,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | 1 | | | 1 | | | | |
| FOOTAGE | 10,000 - 12,499 | 11,753 | | | 11,753 | 11,753 | + | + | 11,753 |
| COSTS $ | | 2,333,887 | | | 2,333,887 | 2,333,887 | + | + | 2,333,887 |
| WELLS | | | | | | | | | |
| FOOTAGE | 12,500 - 14,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 1 | | | 1 | | | | |
| TOTAL FOOTAGE | | 11,753 | | | 11,753 | 11,753 | + | + | 11,753 |
| TOTAL COSTS $ | | 2,333,887 | | | 2,333,887 | 2,333,887 | + | + | 2,333,887 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 9

## ARKANSAS

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | | 2 | 10 | 12 | | | | |
| FOOTAGE | 0 - 1,249 | | 1,624 | 8,198 | 9,822 | * | 812 | 819 | 818 |
| COSTS $ | | | 93,810 | 218,846 | 312,656 | * | 46,905 | 21,884 | 26,054 |
| WELLS | | 18 | 3 | 15 | 36 | | | | |
| FOOTAGE | 1,250 - 2,499 | 40,175 | 5,966 | 33,523 | 79,664 | 2,231 | 1,988 | 2,234 | 2,212 |
| COSTS $ | | 949,351 | 396,702 | 2,268,465 | 3,614,518 | 52,741 | 132,234 | 151,231 | 100,403 |
| WELLS | | 88 | 16 | 60 | 164 | | | | |
| FOOTAGE | 2,500 - 3,749 | 256,255 | 50,832 | 187,997 | 495,084 | 2,911 | 3,177 | 3,133 | 3,018 |
| COSTS $ | | 7,886,981 | 3,366,848 | 9,021,710 | 20,275,539 | 89,624 | 210,428 | 150,361 | 123,631 |
| WELLS | | 20 | 18 | 53 | 91 | | | | |
| FOOTAGE | 3,750 - 4,999 | 84,819 | 78,991 | 224,440 | 388,250 | 4,240 | 4,388 | 4,234 | 4,266 |
| COSTS $ | | 3,280,756 | 5,871,283 | 10,031,375 | 19,183,414 | 164,037 | 326,182 | 189,271 | 210,806 |
| WELLS | | 54 | 48 | 82 | 184 | | | | |
| FOOTAGE | 5,000 - 7,499 | 343,976 | 300,063 | 511,091 | 1,155,130 | 6,369 | 6,251 | 6,232 | 6,277 |
| COSTS $ | | 16,798,321 | 24,462,519 | 17,242,040 | 58,502,880 | 311,080 | 509,635 | 210,268 | 317,950 |
| WELLS | | 30 | 29 | 45 | 104 | | | | |
| FOOTAGE | 7,500 - 9,999 | 249,466 | 246,845 | 373,708 | 870,019 | 8,315 | 8,511 | 8,304 | 8,365 |
| COSTS $ | | 14,041,380 | 16,815,031 | 13,465,711 | 44,322,122 | 468,046 | 579,828 | 299,238 | 426,174 |
| WELLS | | 5 | 2 | 13 | 20 | | | | |
| FOOTAGE | 10,000 - 12,499 | 55,135 | 22,113 | 140,583 | 217,831 | 11,027 | 11,056 | 10,814 | 10,891 |
| COSTS $ | | 5,206,211 | 1,256,814 | 9,310,600 | 15,773,625 | 1,041,242 | 628,407 | 716,200 | 788,681 |
| WELLS | | | | | | | | | |
| FOOTAGE | 12,500 - 14,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| TOTAL WELLS | | 215 | 118 | 278 | 611 | | | | |
| TOTAL FOOTAGE | | 1,029,826 | 706,434 | 1,479,540 | 3,215,800 | 4,789 | 5,986 | 5,322 | 5,263 |
| TOTAL COSTS $ | | 48,163,000 | 52,263,007 | 81,558,747 | 161,984,754 | 224,013 | 442,906 | 221,434 | 265,114 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 10

## CALIFORNIA - TOTAL

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| | | | | | | | | | |
| WELLS | | 624 | | 20 | 644 | | | | |
| FOOTAGE | 0 - 1,249 | 573,154 | | 17,259 | 590,413 | 918 | + | 862 | 916 |
| COSTS $ | | 41,195,139 | | 1,261,437 | 42,456,576 | 66,017 | + | 63,071 | 65,926 |
| WELLS | | 719 | 5 | 30 | 754 | | | | |
| FOOTAGE | 1,250 - 2,499 | 1,247,743 | 9,007 | 51,988 | 1,308,738 | 1,735 | 1,801 | 1,732 | 1,735 |
| COSTS $ | | 86,435,406 | 637,063 | 3,682,169 | 90,754,638 | 120,216 | 127,412 | 122,738 | 120,364 |
| WELLS | | 317 | 7 | 40 | 364 | | | | |
| FOOTAGE | 2,500 - 3,749 | 954,750 | 22,578 | 126,286 | 1,103,614 | 3,011 | 3,225 | 3,157 | 3,031 |
| COSTS $ | | 94,143,726 | 1,314,049 | 7,182,875 | 102,640,650 | 296,983 | 187,721 | 179,571 | 281,979 |
| WELLS | | 126 | 19 | 44 | 189 | | | | |
| FOOTAGE | 3,750 - 4,999 | 544,861 | 81,392 | 190,305 | 816,558 | 4,324 | 4,283 | 4,325 | 4,320 |
| COSTS $ | | 56,919,341 | 4,710,508 | 9,563,793 | 71,193,642 | 451,740 | 247,921 | 217,358 | 376,685 |
| WELLS | | 150 | 28 | 79 | 257 | | | | |
| FOOTAGE | 5,000 - 7,499 | 911,299 | 174,287 | 497,139 | 1,582,725 | 6,075 | 6,224 | 6,292 | 6,158 |
| COSTS $ | | 105,038,719 | 12,129,722 | 24,302,824 | 141,471,265 | 700,258 | 433,204 | 307,630 | 550,471 |
| WELLS | | 81 | 23 | 68 | 172 | | | | |
| FOOTAGE | 7,500 - 9,999 | 688,576 | 196,228 | 578,495 | 1,463,299 | 8,500 | 8,531 | 8,507 | 8,507 |
| COSTS $ | | 80,576,242 | 14,704,843 | 38,254,242 | 133,535,327 | 994,768 | 639,341 | 562,562 | 776,368 |
| WELLS | | 21 | 5 | 31 | 57 | | | | |
| FOOTAGE | 10,000 - 12,499 | 229,551 | 53,813 | 336,336 | 619,700 | 10,931 | 10,762 | 10,849 | 10,871 |
| COSTS $ | | 44,495,818 | 4,446,847 | 45,891,298 | 94,833,963 | 2,118,848 | 889,369 | 1,480,364 | 1,663,753 |
| WELLS | | 11 | | 12 | 23 | | | | |
| FOOTAGE | 12,500 - 14,999 | 151,402 | | 161,195 | 312,597 | 13,763 | + | 13,432 | 13,591 |
| COSTS $ | | 44,501,128 | | 22,255,789 | 66,756,917 | 4,045,557 | + | 1,854,649 | 2,902,474 |
| WELLS | | 1 | | 4 | 5 | | | | |
| FOOTAGE | 15,000 - 17,499 | 16,219 | | 62,646 | 78,865 | 16,219 | + | 15,661 | 15,773 |
| COSTS $ | | 3,116,486 | | 14,745,457 | 17,861,943 | 3,116,486 | + | 3,686,364 | 3,572,388 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 17,500 - 19,999 | | | 19,670 | 19,670 | + | + | 19,670 | 19,670 |
| COSTS $ | | | | 5,257,126 | 5,257,126 | + | + | 5,257,126 | 5,257,126 |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 2,050 | 87 | 329 | 2,466 | | | | |
| TOTAL FOOTAGE | | 5,317,555 | 537,305 | 2,041,319 | 7,896,179 | 2,593 | 6,175 | 6,204 | 3,202 |
| TOTAL COSTS $ | | 556,422,005 | 37,943,032 | 172,397,010 | 766,762,047 | 271,425 | 436,126 | 524,003 | 310,933 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 11

## CALIFORNIA - NORTH

| DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|
| | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | | 2 | 2 | | | | |
| FOOTAGE 0 - 1,249 | | | 2,084 | 2,084 | * | * | 1,042 | 1,042 |
| COSTS $ | | | 142,350 | 142,350 | * | * | 71,175 | 71,175 |
| WELLS | 1 | 3 | | 4 | | | | |
| FOOTAGE 1,250 - 2,499 | 2,055 | 4,960 | | 7,015 | 2,055 | 1,653 | * | 1,753 |
| COSTS $ | 160,279 | 375,063 | | 535,342 | 160,279 | 125,021 | * | 133,835 |
| WELLS | 1 | 7 | 17 | 25 | | | | |
| FOOTAGE 2,500 - 3,749 | 3,380 | 22,578 | 54,734 | 80,692 | 3,380 | 3,225 | 3,219 | 3,227 |
| COSTS $ | 317,365 | 1,314,049 | 2,367,543 | 3,998,957 | 317,365 | 187,721 | 139,267 | 159,958 |
| WELLS | 2 | 12 | 21 | 35 | | | | |
| FOOTAGE 3,750 - 4,999 | 8,867 | 53,248 | 90,893 | 153,008 | 4,433 | 4,437 | 4,328 | 4,371 |
| COSTS $ | 854,780 | 3,069,996 | 3,449,448 | 7,374,224 | 427,390 | 255,833 | 164,259 | 210,692 |
| WELLS | | 27 | 53 | 80 | | | | |
| FOOTAGE 5,000 - 7,499 | | 168,571 | 325,756 | 494,327 | * | 6,243 | 6,146 | 6,179 |
| COSTS $ | | 11,300,773 | 13,187,227 | 24,488,000 | * | 418,547 | 248,815 | 306,100 |
| WELLS | | 20 | 39 | 59 | | | | |
| FOOTAGE 7,500 - 9,999 | | 171,682 | 331,975 | 503,657 | * | 8,584 | 8,512 | 8,536 |
| COSTS $ | | 12,640,239 | 14,902,653 | 27,542,892 | * | 632,011 | 382,119 | 466,828 |
| WELLS | | 5 | 12 | 17 | | | | |
| FOOTAGE 10,000 - 12,499 | | 53,813 | 129,717 | 183,530 | * | 10,762 | 10,809 | 10,795 |
| COSTS $ | | 4,446,847 | 9,309,041 | 13,755,888 | * | 889,369 | 775,753 | 809,169 |
| WELLS | | | 3 | 3 | | | | |
| FOOTAGE 12,500 - 14,999 | | | 39,414 | 39,414 | * | * | 13,138 | 13,138 |
| COSTS $ | | | 3,965,457 | 3,965,457 | * | * | 1,321,819 | 1,321,819 |
| WELLS | | | | | | | | |
| FOOTAGE 15,000 - 17,499 | | | | | * | * | * | * |
| COSTS $ | | | | | * | * | * | * |
| WELLS | | | 1 | 1 | | | | |
| FOOTAGE 17,500 - 19,999 | | | 19,670 | 19,670 | * | * | 19,670 | 19,670 |
| COSTS $ | | | 5,257,126 | 5,257,126 | * | * | 5,257,126 | 5,257,126 |
| WELLS | | | | | | | | |
| FOOTAGE 20,000 & OVER | | | | | * | * | * | * |
| COSTS $ | | | | | * | * | * | * |
| TOTAL WELLS | 4 | 74 | 148 | 226 | | | | |
| TOTAL FOOTAGE | 14,302 | 474,852 | 994,243 | 1,483,397 | 3,575 | 6,416 | 6,717 | 6,563 |
| TOTAL COSTS $ | 1,332,424 | 33,146,967 | 52,560,845 | 87,060,236 | 333,106 | 447,931 | 355,275 | 385,222 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 12

CALIFORNIA - CENTRAL COASTAL

| DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|
| | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | 11 | | 6 | 17 | | | | |
| FOOTAGE 0 - 1,249 | 10,669 | | 4,943 | 15,612 | 969 | + | 823 | 918 |
| COSTS $ | 1,638,514 | | 675,768 | 2,314,282 | 148,955 | + | 112,628 | 136,134 |
| WELLS | 104 | | 9 | 113 | | | | |
| FOOTAGE 1,250 - 2,499 | 226,944 | | 16,419 | 243,363 | 2,182 | + | 1,824 | 2,153 |
| COSTS $ | 20,636,460 | | 1,698,928 | 22,335,388 | 198,427 | + | 188,769 | 197,658 |
| WELLS | 61 | | 3 | 64 | | | | |
| FOOTAGE 2,500 - 3,749 | 178,357 | | 9,504 | 187,861 | 2,923 | + | 3,168 | 2,935 |
| COSTS $ | 14,660,413 | | 1,102,088 | 15,762,501 | 240,334 | + | 367,362 | 246,289 |
| WELLS | 19 | 1 | 3 | 23 | | | | |
| FOOTAGE 3,750 - 4,999 | 82,588 | 4,172 | 12,874 | 99,634 | 4,346 | 4,172 | 4,291 | 4,331 |
| COSTS $ | 8,003,352 | 227,308 | 805,999 | 9,036,659 | 421,229 | 227,308 | 268,666 | 392,898 |
| WELLS | 31 | | 3 | 34 | | | | |
| FOOTAGE 5,000 - 7,499 | 189,187 | | 19,460 | 208,647 | 6,102 | + | 6,486 | 6,136 |
| COSTS $ | 18,738,717 | | 1,646,409 | 20,385,126 | 604,474 | + | 548,803 | 599,562 |
| WELLS | 22 | 1 | 5 | 28 | | | | |
| FOOTAGE 7,500 - 9,999 | 183,306 | 8,356 | 40,511 | 232,173 | 8,332 | 8,356 | 8,102 | 8,291 |
| COSTS $ | 21,368,275 | 1,199,552 | 3,455,193 | 26,023,020 | 971,285 | 1,199,552 | 691,038 | 929,393 |
| WELLS | 1 | | 4 | 5 | | | | |
| FOOTAGE 10,000 - 12,499 | 12,050 | | 43,320 | 55,370 | 12,050 | + | 10,830 | 11,074 |
| COSTS $ | 912,459 | | 5,572,558 | 6,485,017 | 912,459 | + | 1,393,139 | 1,297,003 |
| WELLS | 2 | | 1 | 3 | | | | |
| FOOTAGE 12,500 - 14,999 | 28,226 | | 14,175 | 42,401 | 14,113 | + | 14,175 | 14,133 |
| COSTS $ | 4,696,321 | | 2,383,039 | 7,079,360 | 2,348,160 | + | 2,383,039 | 2,359,786 |
| WELLS | 1 | | 2 | 3 | | | | |
| FOOTAGE 15,000 - 17,499 | 16,219 | | 32,250 | 48,469 | 16,219 | + | 16,125 | 16,156 |
| COSTS $ | 3,116,486 | | 6,413,497 | 9,529,983 | 3,116,486 | + | 3,206,748 | 3,176,661 |
| WELLS | | | | | | | | |
| FOOTAGE 17,500 - 19,999 | | | | | + | + | + | + |
| COSTS $ | | | | | + | + | + | + |
| WELLS | | | | | | | | |
| FOOTAGE 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | + | + | + | + |
| TOTAL WELLS | 252 | 2 | 36 | 290 | | | | |
| TOTAL FOOTAGE | 927,546 | 12,528 | 193,456 | 1,133,530 | 3,680 | 6,264 | 5,373 | 3,908 |
| TOTAL COSTS $ | 93,770,997 | 1,426,860 | 23,753,479 | 118,951,336 | 372,107 | 713,430 | 659,818 | 410,177 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 13

CALIFORNIA - EAST CENTRAL

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 609 | | 12 | 621 | | | | |
| FOOTAGE | 0 - 1,249 | 559,185 | | 10,232 | 569,417 | 918 | + | 852 | 916 |
| COSTS $ | | 39,132,361 | | 443,319 | 39,575,680 | 64,256 | + | 36,943 | 63,728 |
| WELLS | | 589 | 2 | 21 | 612 | | | | |
| FOOTAGE | 1,250 - 2,499 | 979,759 | 4,047 | 35,569 | 1,019,375 | 1,663 | 2,023 | 1,693 | 1,665 |
| COSTS $ | | 62,252,721 | 262,000 | 1,983,241 | 64,497,962 | 105,692 | 131,000 | 94,440 | 105,388 |
| WELLS | | 210 | | 14 | 224 | | | | |
| FOOTAGE | 2,500 - 3,749 | 624,302 | | 44,128 | 668,430 | 2,972 | + | 3,152 | 2,984 |
| COSTS $ | | 60,601,356 | | 1,649,648 | 62,251,004 | 288,577 | + | 117,832 | 277,906 |
| WELLS | | 40 | 6 | 12 | 58 | | | | |
| FOOTAGE | 3,750 - 4,999 | 179,407 | 23,972 | 53,021 | 256,400 | 4,485 | 3,995 | 4,418 | 4,420 |
| COSTS $ | | 15,262,886 | 1,413,204 | 2,477,464 | 19,153,554 | 381,572 | 235,534 | 206,455 | 330,233 |
| WELLS | | 77 | 1 | 15 | 93 | | | | |
| FOOTAGE | 5,000 - 7,499 | 467,923 | 5,716 | 99,450 | 573,089 | 6,076 | 5,716 | 6,630 | 6,162 |
| COSTS $ | | 49,828,822 | 828,949 | 4,949,905 | 55,607,676 | 647,127 | 828,949 | 329,993 | 597,932 |
| WELLS | | 47 | 2 | 17 | 66 | | | | |
| FOOTAGE | 7,500 - 9,999 | 397,160 | 16,190 | 146,603 | 559,953 | 8,450 | 8,095 | 8,623 | 8,484 |
| COSTS $ | | 32,529,022 | 865,052 | 9,734,011 | 43,128,085 | 692,106 | 432,526 | 572,588 | 653,455 |
| WELLS | | 9 | | 11 | 20 | | | | |
| FOOTAGE | 10,000 - 12,499 | 100,357 | | 118,777 | 219,134 | 11,150 | + | 10,797 | 10,956 |
| COSTS $ | | 14,210,674 | | 14,585,825 | 28,796,499 | 1,578,963 | + | 1,325,984 | 1,439,824 |
| WELLS | | 7 | | 7 | 14 | | | | |
| FOOTAGE | 12,500 - 14,999 | 96,638 | | 93,432 | 190,070 | 13,805 | + | 13,347 | 13,576 |
| COSTS $ | | 19,855,212 | | 12,991,059 | 32,846,271 | 2,836,458 | + | 1,855,865 | 2,346,162 |
| WELLS | | | | 2 | 2 | | | | |
| FOOTAGE | 15,000 - 17,499 | | | 30,396 | 30,396 | + | + | 15,198 | 15,198 |
| COSTS $ | | | | 8,331,960 | 8,331,960 | + | + | 4,165,980 | 4,165,980 |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 1,588 | 11 | 111 | 1,710 | | | | |
| TOTAL FOOTAGE | | 3,404,731 | 49,925 | 631,608 | 4,086,264 | 2,144 | 4,538 | 5,690 | 2,389 |
| TOTAL COSTS $ | | 293,673,054 | 3,369,205 | 57,146,432 | 354,188,691 | 184,932 | 306,291 | 514,832 | 207,127 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 14

CALIFORNIA - SOUTH

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 4 | | | 4 | | | | |
| FOOTAGE | 0 - 1,249 | 3,300 | | | 3,300 | 825 | + | + | 825 |
| COSTS $ | | 424,264 | | | 424,264 | 106,066 | + | + | 106,066 |
| WELLS | | 25 | | | 25 | | | | |
| FOOTAGE | 1,250 - 2,499 | 38,985 | | | 38,985 | 1,559 | + | + | 1,559 |
| COSTS $ | | 3,385,946 | | | 3,385,946 | 135,437 | + | + | 135,437 |
| WELLS | | 35 | | 3 | 38 | | | | |
| FOOTAGE | 2,500 - 3,749 | 117,035 | | 8,326 | 125,361 | 3,343 | + | 2,775 | 3,298 |
| COSTS $ | | 12,890,995 | | 486,138 | 13,377,133 | 368,314 | + | 162,046 | 352,029 |
| WELLS | | 31 | | 5 | 36 | | | | |
| FOOTAGE | 3,750 - 4,999 | 125,326 | | 19,959 | 145,285 | 4,042 | + | 3,991 | 4,035 |
| COSTS $ | | 11,990,651 | | 1,092,613 | 13,083,264 | 386,795 | + | 218,522 | 363,424 |
| WELLS | | 9 | | 3 | 12 | | | | |
| FOOTAGE | 5,000 - 7,499 | 51,694 | | 18,709 | 70,403 | 5,743 | + | 6,236 | 5,866 |
| COSTS $ | | 5,316,861 | | 1,646,392 | 6,963,253 | 590,762 | + | 548,797 | 580,271 |
| WELLS | | 4 | | 3 | 7 | | | | |
| FOOTAGE | 7,500 - 9,999 | 35,541 | | 25,224 | 60,765 | 8,885 | + | 8,408 | 8,680 |
| COSTS $ | | 7,322,851 | | 3,189,407 | 10,512,258 | 1,830,712 | + | 1,063,135 | 1,501,751 |
| WELLS | | 4 | | 2 | 6 | | | | |
| FOOTAGE | 10,000 - 12,499 | 42,952 | | 23,005 | 65,957 | 10,738 | + | 11,502 | 10,992 |
| COSTS $ | | 7,027,456 | | 3,875,930 | 10,903,386 | 1,756,864 | + | 1,937,965 | 1,817,231 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 12,500 - 14,999 | | | 14,174 | 14,174 | + | + | 14,174 | 14,174 |
| COSTS $ | | | | 2,916,234 | 2,916,234 | + | + | 2,916,234 | 2,916,234 |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 112 | | 17 | 129 | | | | |
| TOTAL FOOTAGE | | 414,833 | | 109,397 | 524,230 | 3,703 | + | 6,435 | 4,063 |
| TOTAL COSTS $ | | 48,359,024 | | 13,206,714 | 61,565,738 | 431,777 | + | 776,865 | 477,253 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 15

## CALIFORNIA - OFFSHORE

| DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|
| | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| **0 - 1,249** | | | | | | | | |
| WELLS | | | | | + | + | + | + |
| FOOTAGE | | | | | + | + | + | + |
| COSTS $ | | | | | | | | |
| **1,250 - 2,499** | | | | | | | | |
| WELLS | | | | | + | + | + | + |
| FOOTAGE | | | | | + | + | + | + |
| COSTS $ | | | | | | | | |
| **2,500 - 3,749** | | | | | | | | |
| WELLS | 10 | | 3 | 13 | | | | |
| FOOTAGE | 31,676 | | 9,594 | 41,270 | 3,167 | + | 3,198 | 3,174 |
| COSTS $ | 5,673,597 | | 1,577,458 | 7,251,055 | 567,359 | + | 525,819 | 557,773 |
| **3,750 - 4,999** | | | | | | | | |
| WELLS | 34 | | 3 | 37 | | | | |
| FOOTAGE | 148,673 | | 13,558 | 162,231 | 4,372 | + | 4,519 | 4,384 |
| COSTS $ | 20,807,672 | | 1,738,269 | 22,545,941 | 611,990 | + | 579,423 | 609,349 |
| **5,000 - 7,499** | | | | | | | | |
| WELLS | 33 | | 5 | 38 | | | | |
| FOOTAGE | 202,495 | | 33,764 | 236,259 | 6,136 | + | 6,752 | 6,217 |
| COSTS $ | 31,154,319 | | 2,872,891 | 34,027,210 | 944,070 | + | 574,578 | 895,452 |
| **7,500 - 9,999** | | | | | | | | |
| WELLS | 8 | | 4 | 12 | | | | |
| FOOTAGE | 72,569 | | 34,182 | 106,751 | 9,071 | + | 8,545 | 8,895 |
| COSTS $ | 19,356,094 | | 6,972,978 | 26,329,072 | 2,419,511 | + | 1,743,244 | 2,194,089 |
| **10,000 - 12,499** | | | | | | | | |
| WELLS | 7 | | 2 | 9 | | | | |
| FOOTAGE | 74,192 | | 21,517 | 95,709 | 10,598 | + | 10,758 | 10,634 |
| COSTS $ | 22,345,229 | | 12,547,944 | 34,893,173 | 3,192,175 | + | 6,273,972 | 3,877,019 |
| **12,500 - 14,999** | | | | | | | | |
| WELLS | 2 | | | 2 | | | | |
| FOOTAGE | 26,538 | | | 26,538 | 13,269 | + | + | 13,269 |
| COSTS $ | 19,949,595 | | | 19,949,595 | 9,974,797 | + | + | 9,974,797 |
| **15,000 - 17,499** | | | | | | | | |
| WELLS | | | | | + | + | + | + |
| FOOTAGE | | | | | + | + | + | + |
| COSTS $ | | | | | | | | |
| **17,500 - 19,999** | | | | | | | | |
| WELLS | | | | | + | + | + | + |
| FOOTAGE | | | | | + | + | + | + |
| COSTS $ | | | | | | | | |
| **20,000 & OVER** | | | | | | | | |
| WELLS | | | | | + | + | + | + |
| FOOTAGE | | | | | + | + | + | + |
| COSTS $ | | | | | | | | |
| **TOTAL WELLS** | 94 | | 17 | 111 | | | | |
| **TOTAL FOOTAGE** | 556,143 | | 112,615 | 668,758 | 5,916 | + | 6,624 | 6,024 |
| **TOTAL COSTS $** | 119,286,506 | | 25,709,540 | 144,996,046 | 1,269,005 | + | 1,512,325 | 1,306,270 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 16

## COLORADO

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 10 | 1 | 13 | 24 | | | | |
| FOOTAGE | 0 - 1,249 | 4,078 | 640 | 9,118 | 13,836 | 407 | 640 | 701 | 576 |
| COSTS $ | | 367,783 | 50,509 | 527,289 | 945,581 | 36,778 | 50,509 | 40,560 | 39,399 |
| WELLS | | 6 | 36 | 33 | 75 | | | | |
| FOOTAGE | 1,250 - 2,499 | 10,232 | 73,227 | 61,991 | 145,450 | 1,705 | 2,034 | 1,878 | 1,939 |
| COSTS $ | | 603,959 | 4,065,098 | 1,793,712 | 6,462,769 | 100,659 | 112,919 | 54,354 | 86,170 |
| WELLS | | 10 | 173 | 93 | 276 | | | | |
| FOOTAGE | 2,500 - 3,749 | 31,960 | 532,988 | 287,149 | 852,097 | 3,196 | 3,080 | 3,087 | 3,087 |
| COSTS $ | | 1,159,604 | 27,408,054 | 8,258,436 | 36,826,094 | 115,960 | 158,428 | 88,800 | 133,427 |
| WELLS | | 51 | 61 | 78 | 190 | | | | |
| FOOTAGE | 3,750 - 4,999 | 243,349 | 264,373 | 354,375 | 862,097 | 4,771 | 4,333 | 4,543 | 4,537 |
| COSTS $ | | 10,791,394 | 15,505,153 | 9,074,237 | 35,370,784 | 211,595 | 254,182 | 116,336 | 186,162 |
| WELLS | | 157 | 115 | 237 | 509 | | | | |
| FOOTAGE | 5,000 - 7,499 | 928,224 | 706,202 | 1,419,145 | 3,053,571 | 5,912 | 6,140 | 5,987 | 5,999 |
| COSTS $ | | 42,879,007 | 41,320,489 | 42,942,824 | 127,142,320 | 273,114 | 359,308 | 181,193 | 249,788 |
| WELLS | | 64 | 148 | 37 | 249 | | | | |
| FOOTAGE | 7,500 - 9,999 | 504,880 | 1,181,331 | 304,755 | 1,990,966 | 7,888 | 7,981 | 8,236 | 7,995 |
| COSTS $ | | 24,379,818 | 63,459,272 | 14,127,901 | 101,966,991 | 380,934 | 428,778 | 381,835 | 409,505 |
| WELLS | | | | 5 | 5 | | | | |
| FOOTAGE | 10,000 - 12,499 | | | 55,710 | 55,710 | * | * | 11,142 | 11,142 |
| COSTS $ | | | | 7,988,380 | 7,988,380 | * | * | 1,597,676 | 1,597,676 |
| WELLS | | | 1 | 1 | 2 | | | | |
| FOOTAGE | 12,500 - 14,999 | | 12,500 | 13,600 | 26,100 | * | 12,500 | 13,600 | 13,050 |
| COSTS $ | | | 2,079,550 | 1,774,567 | 3,854,117 | * | 2,079,550 | 1,774,567 | 1,927,058 |
| WELLS | | | 2 | | 2 | | | | |
| FOOTAGE | 15,000 - 17,499 | | 30,760 | | 30,760 | * | 15,380 | * | 15,380 |
| COSTS $ | | | 9,400,533 | | 9,400,533 | * | 4,700,266 | * | 4,700,266 |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| TOTAL WELLS | | 298 | 537 | 497 | 1,332 | | | | |
| TOTAL FOOTAGE | | 1,722,723 | 2,802,021 | 2,505,843 | 7,030,587 | 5,780 | 5,217 | 5,041 | 5,278 |
| TOTAL COSTS $ | | 80,181,565 | 163,288,658 | 86,487,346 | 329,957,569 | 269,065 | 304,075 | 174,018 | 247,715 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 17

## FLORIDA

| DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|
| | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | | | | | | | |
| FOOTAGE 0 - 1,249 | | | | | + | + | + | + |
| COSTS $ | | | | | + | + | + | + |
| WELLS | | | | | | | | |
| FOOTAGE 1,250 - 2,499 | | | | | + | + | + | + |
| COSTS $ | | | | | + | + | + | + |
| WELLS | | | | | | | | |
| FOOTAGE 2,500 - 3,749 | | | | | + | + | + | + |
| COSTS $ | | | | | + | + | + | + |
| WELLS | | | | | | | | |
| FOOTAGE 3,750 - 4,999 | | | | | + | + | + | + |
| COSTS $ | | | | | + | + | + | + |
| WELLS | | | 1 | 1 | | | | |
| FOOTAGE 5,000 - 7,499 | | | 6,470 | 6,470 | + | + | 6,470 | 6,470 |
| COSTS $ | | | 1,498,678 | 1,498,678 | + | + | 1,498,678 | 1,498,678 |
| WELLS | | | | | | | | |
| FOOTAGE 7,500 - 9,999 | | | | | + | + | + | + |
| COSTS $ | | | | | + | + | + | + |
| WELLS | 5 | | 8 | 13 | | | | |
| FOOTAGE 10,000 - 12,499 | 58,325 | | 94,691 | 153,016 | 11,665 | + | 11,836 | 11,770 |
| COSTS $ | 4,303,191 | | 6,776,055 | 11,079,246 | 860,638 | + | 847,006 | 852,249 |
| WELLS | | | 1 | 1 | | | | |
| FOOTAGE 12,500 - 14,999 | | | 14,919 | 14,919 | + | + | 14,919 | 14,919 |
| COSTS $ | | | 1,116,885 | 1,116,885 | + | + | 1,116,885 | 1,116,885 |
| WELLS | 5 | | | 5 | | | | |
| FOOTAGE 15,000 - 17,499 | 79,924 | | | 79,924 | 15,984 | + | + | 15,984 |
| COSTS $ | 15,301,800 | | | 15,301,800 | 3,060,360 | + | + | 3,060,360 |
| WELLS | | | | | | | | |
| FOOTAGE 17,500 - 19,999 | | | | | + | + | + | + |
| COSTS $ | | | | | + | + | + | + |
| WELLS | | | | | | | | |
| FOOTAGE 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | + | + | + | + |
| TOTAL WELLS | 10 | | 10 | 20 | | | | |
| TOTAL FOOTAGE | 138,249 | | 116,080 | 254,329 | 13,824 | + | 11,608 | 12,716 |
| TOTAL COSTS $ | 19,604,991 | | 9,391,618 | 28,996,609 | 1,960,499 | + | 939,161 | 1,449,830 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 18

## ILLINOIS

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 231 | 8 | 115 | 354 | | | | |
| FOOTAGE | 0 - 1,249 | 209,369 | 4,467 | 92,264 | 306,100 | 906 | 558 | 802 | 864 |
| COSTS $ | | 8,249,566 | 167,620 | 1,661,160 | 10,078,346 | 35,712 | 20,952 | 14,444 | 28,469 |
| WELLS | | 244 | 3 | 194 | 441 | | | | |
| FOOTAGE | 1,250 - 2,499 | 463,024 | 5,251 | 363,999 | 832,274 | 1,897 | 1,750 | 1,876 | 1,887 |
| COSTS $ | | 17,482,463 | 285,807 | 6,656,427 | 24,424,697 | 71,649 | 95,269 | 34,311 | 55,384 |
| WELLS | | 527 | 1 | 423 | 951 | | | | |
| FOOTAGE | 2,500 - 3,749 | 1,672,841 | 2,570 | 1,352,325 | 3,027,736 | 3,174 | 2,570 | 3,196 | 3,183 |
| COSTS $ | | 49,750,579 | 118,834 | 20,824,840 | 70,694,253 | 94,403 | 118,834 | 49,231 | 74,336 |
| WELLS | | 181 | | 152 | 333 | | | | |
| FOOTAGE | 3,750 - 4,999 | 739,449 | | 624,207 | 1,363,656 | 4,085 | * | 4,106 | 4,095 |
| COSTS $ | | 23,934,573 | | 10,291,733 | 34,226,306 | 132,235 | * | 67,708 | 102,781 |
| WELLS | | 7 | | 6 | 13 | | | | |
| FOOTAGE | 5,000 - 7,499 | 38,894 | | 32,321 | 71,215 | 5,556 | * | 5,386 | 5,478 |
| COSTS $ | | 2,691,279 | | 848,777 | 3,540,056 | 384,468 | * | 141,462 | 272,312 |
| WELLS | | | | | | | | | |
| FOOTAGE | 7,500 - 9,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 10,000 - 12,499 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 12,500 - 14,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| TOTAL WELLS | | 1,190 | 12 | 890 | 2,092 | | | | |
| TOTAL FOOTAGE | | 3,123,577 | 12,288 | 2,465,116 | 5,600,981 | 2,624 | 1,024 | 2,769 | 2,677 |
| TOTAL COSTS $ | | 102,108,460 | 572,261 | 40,282,937 | 142,963,658 | 85,805 | 47,688 | 45,261 | 68,338 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 19

INDIANA

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | AVERAGE DEPTH AND COST PER WELL: OIL | GAS | DRY | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| WELLS | | 36 | 38 | 102 | 176 | | | | |
| FOOTAGE | 0 - 1,249 | 35,698 | 34,100 | 91,783 | 161,581 | 991 | 897 | 899 | 918 |
| COSTS $ | | 857,512 | 789,492 | 1,423,523 | 3,070,527 | 23,819 | 20,776 | 13,956 | 17,446 |
| WELLS | | 189 | 7 | 161 | 357 | | | | |
| FOOTAGE | 1,250 - 2,499 | 380,632 | 14,319 | 305,427 | 700,378 | 2,013 | 2,045 | 1,897 | 1,961 |
| COSTS $ | | 10,205,461 | 491,674 | 5,217,574 | 15,914,709 | 53,997 | 70,239 | 32,407 | 44,579 |
| WELLS | | 89 | | 89 | 178 | | | | |
| FOOTAGE | 2,500 - 3,749 | 249,966 | | 254,847 | 504,813 | 2,808 | + | 2,863 | 2,836 |
| COSTS $ | | 6,520,951 | | 4,325,193 | 10,846,144 | 73,269 | + | 48,597 | 60,933 |
| WELLS | | 2 | | | 2 | | | | |
| FOOTAGE | 3,750 - 4,999 | 8,769 | | | 8,769 | 4,384 | + | + | 4,384 |
| COSTS $ | | 448,173 | | | 448,173 | 224,086 | + | + | 224,086 |
| WELLS | | | | | | | | | |
| FOOTAGE | 5,000 - 7,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 7,500 - 9,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 10,000 - 12,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 12,500 - 14,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 316 | 45 | 352 | 713 | | | | |
| TOTAL FOOTAGE | | 675,065 | 48,419 | 652,057 | 1,375,541 | 2,136 | 1,075 | 1,852 | 1,929 |
| TOTAL COSTS $ | | 18,032,097 | 1,281,166 | 10,966,290 | 30,279,553 | 57,063 | 28,470 | 31,154 | 42,467 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 20

## KANSAS

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 444 | 61 | 77 | 582 | | | | |
| FOOTAGE | 0 - 1,249 | 360,949 | 49,020 | 62,291 | 472,260 | 812 | 803 | 808 | 811 |
| COSTS $ | | 6,459,933 | 1,647,307 | 1,662,094 | 9,769,334 | 14,549 | 27,005 | 21,585 | 16,785 |
| WELLS | | 254 | 80 | 191 | 525 | | | | |
| FOOTAGE | 1,250 - 2,499 | 507,966 | 154,051 | 380,755 | 1,042,772 | 1,999 | 1,925 | 1,993 | 1,986 |
| COSTS $ | | 11,410,702 | 6,363,735 | 7,196,024 | 24,970,461 | 44,924 | 79,546 | 37,675 | 47,562 |
| WELLS | | 1,005 | 232 | 994 | 2,231 | | | | |
| FOOTAGE | 2,500 - 3,749 | 3,272,343 | 700,890 | 3,289,657 | 7,262,890 | 3,256 | 3,021 | 3,309 | 3,255 |
| COSTS $ | | 90,777,149 | 28,244,977 | 59,387,802 | 178,409,928 | 90,325 | 121,745 | 59,746 | 79,968 |
| WELLS | | 595 | 133 | 1,033 | 1,761 | | | | |
| FOOTAGE | 3,750 - 4,999 | 2,589,203 | 594,678 | 4,439,361 | 7,623,242 | 4,351 | 4,471 | 4,297 | 4,328 |
| COSTS $ | | 87,868,118 | 19,770,015 | 84,379,764 | 192,017,897 | 147,677 | 148,646 | 81,684 | 109,039 |
| WELLS | | 97 | 94 | 225 | 416 | | | | |
| FOOTAGE | 5,000 - 7,499 | 545,658 | 545,884 | 1,252,111 | 2,343,653 | 5,625 | 5,807 | 5,564 | 5,633 |
| COSTS $ | | 25,099,659 | 23,568,515 | 53,224,478 | 81,892,652 | 258,759 | 250,728 | 147,664 | 196,857 |
| WELLS | | | 1 | | 1 | | | | |
| FOOTAGE | 7,500 - 9,999 | | 7,567 | | 7,567 | + | 7,567 | + | 7,567 |
| COSTS $ | | | 550,723 | | 550,723 | + | 550,723 | + | 550,723 |
| WELLS | | | | | | | | | |
| FOOTAGE | 10,000 - 12,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 12,500 - 14,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 2,395 | 601 | 2,520 | 5,516 | | | | |
| TOTAL FOOTAGE | | 7,276,119 | 2,052,090 | 9,424,175 | 18,752,384 | 3,038 | 3,414 | 3,739 | 3,399 |
| TOTAL COSTS $ | | 221,615,561 | 80,145,272 | 185,850,162 | 487,610,995 | 92,532 | 133,353 | 73,750 | 88,399 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 21

## KENTUCKY

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 301 | 21 | 337 | 659 | | | | |
| FOOTAGE | 0 - 1,249 | 204,508 | 17,290 | 196,384 | 418,182 | 679 | 823 | 582 | 634 |
| COSTS $ | | 5,381,267 | 535,679 | 2,923,226 | 8,860,172 | 17,877 | 26,460 | 8,674 | 13,444 |
| WELLS | | 178 | 54 | 240 | 472 | | | | |
| FOOTAGE | 1,250 - 2,499 | 315,051 | 91,850 | 424,175 | 831,076 | 1,769 | 1,700 | 1,767 | 1,760 |
| COSTS $ | | 8,531,634 | 4,057,301 | 9,087,361 | 21,676,296 | 47,930 | 75,135 | 37,864 | 45,924 |
| WELLS | | 58 | 61 | 79 | 178 | | | | |
| FOOTAGE | 2,500 - 3,749 | 105,920 | 183,925 | 227,332 | 517,177 | 2,787 | 3,015 | 2,877 | 2,905 |
| COSTS $ | | 4,688,305 | 8,747,961 | 7,005,344 | 20,441,610 | 123,376 | 143,409 | 88,675 | 114,840 |
| WELLS | | | 18 | 7 | 25 | | | | |
| FOOTAGE | 3,750 - 4,999 | | 75,470 | 30,478 | 105,948 | + | 4,192 | 4,354 | 4,237 |
| COSTS $ | | | 4,276,088 | 1,473,595 | 5,749,683 | + | 237,560 | 210,513 | 229,987 |
| WELLS | | | | | | | | | |
| FOOTAGE | 5,000 - 7,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 7,500 - 9,999 | | | 8,251 | 8,251 | + | + | 8,251 | 8,251 |
| COSTS $ | | | | 1,030,089 | 1,030,089 | + | + | 1,030,089 | 1,030,089 |
| WELLS | | | | | | | | | |
| FOOTAGE | 10,000 - 12,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 12,500 - 14,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 517 | 154 | 664 | 1,335 | | | | |
| TOTAL FOOTAGE | | 625,479 | 368,535 | 886,620 | 1,880,634 | 1,209 | 2,393 | 1,335 | 1,408 |
| TOTAL COSTS $ | | 18,601,206 | 17,637,029 | 21,519,615 | 57,757,850 | 35,979 | 114,526 | 32,409 | 43,264 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

## LOUISIANA - TOTAL

Table 22

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 303 | 34 | 29 | 366 | | | | |
| FOOTAGE | 0 - 1,249 | 294,532 | 31,992 | 28,752 | 355,276 | 972 | 940 | 991 | 970 |
| COSTS $ | | 9,456,319 | 924,729 | 3,101,007 | 13,482,055 | 31,208 | 27,197 | 106,931 | 36,836 |
| WELLS | | 258 | 901 | 125 | 1,284 | | | | |
| FOOTAGE | 1,250 - 2,499 | 462,086 | 2,058,304 | 255,891 | 2,776,281 | 1,791 | 2,284 | 2,047 | 2,162 |
| COSTS $ | | 15,096,956 | 40,148,190 | 6,293,176 | 61,538,322 | 58,515 | 44,559 | 50,345 | 47,927 |
| WELLS | | 255 | 116 | 281 | 652 | | | | |
| FOOTAGE | 2,500 - 3,749 | 778,599 | 345,284 | 833,516 | 1,957,399 | 3,053 | 2,976 | 2,966 | 3,002 |
| COSTS $ | | 34,207,658 | 20,077,215 | 16,679,630 | 70,964,503 | 134,147 | 173,079 | 59,358 | 108,841 |
| WELLS | | 71 | 27 | 111 | 209 | | | | |
| FOOTAGE | 3,750 - 4,999 | 306,720 | 113,469 | 485,081 | 905,270 | 4,320 | 4,202 | 4,370 | 4,331 |
| COSTS $ | | 22,981,531 | 20,957,829 | 18,542,705 | 62,482,065 | 323,683 | 776,215 | 167,051 | 298,957 |
| WELLS | | 156 | 95 | 258 | 509 | | | | |
| FOOTAGE | 5,000 - 7,499 | 963,827 | 611,991 | 1,617,627 | 3,193,445 | 6,178 | 6,442 | 6,269 | 6,273 |
| COSTS $ | | 97,160,404 | 104,774,591 | 88,881,231 | 290,816,226 | 622,823 | 1,102,890 | 344,500 | 571,348 |
| WELLS | | 159 | 206 | 297 | 662 | | | | |
| FOOTAGE | 7,500 - 9,999 | 1,389,068 | 1,845,889 | 2,621,540 | 5,856,497 | 8,736 | 8,960 | 8,826 | 8,846 |
| COSTS $ | | 223,063,947 | 306,665,710 | 261,398,339 | 791,127,996 | 1,402,917 | 1,488,668 | 880,129 | 1,195,057 |
| WELLS | | 102 | 220 | 386 | 708 | | | | |
| FOOTAGE | 10,000 - 12,499 | 1,138,147 | 2,453,011 | 4,329,669 | 7,920,827 | 11,158 | 11,150 | 11,216 | 11,187 |
| COSTS $ | | 202,964,978 | 463,714,780 | 580,555,288 | 1,247,235,046 | 1,989,852 | 2,107,794 | 1,504,029 | 1,761,631 |
| WELLS | | 58 | 146 | 192 | 396 | | | | |
| FOOTAGE | 12,500 - 14,999 | 789,079 | 1,992,286 | 2,612,050 | 5,393,415 | 13,604 | 13,645 | 13,604 | 13,619 |
| COSTS $ | | 188,336,823 | 484,809,029 | 461,976,211 | 1,135,122,063 | 3,247,186 | 3,320,609 | 2,406,126 | 2,866,469 |
| WELLS | | 27 | 63 | 116 | 206 | | | | |
| FOOTAGE | 15,000 - 17,499 | 428,505 | 1,001,465 | 1,871,244 | 3,301,214 | 15,870 | 15,896 | 16,131 | 16,025 |
| COSTS $ | | 138,684,001 | 326,209,405 | 501,667,720 | 966,561,126 | 5,136,444 | 5,177,927 | 4,324,721 | 4,692,044 |
| WELLS | | 4 | 20 | 37 | 61 | | | | |
| FOOTAGE | 17,500 - 19,999 | 73,040 | 374,853 | 677,829 | 1,125,722 | 18,260 | 18,742 | 18,319 | 18,454 |
| COSTS $ | | 42,939,308 | 144,107,246 | 191,282,415 | 378,328,969 | 10,734,827 | 7,205,362 | 5,169,795 | 6,202,114 |
| WELLS | | | 12 | 15 | 27 | | | | |
| FOOTAGE | 20,000 & OVER | | 250,093 | 312,780 | 562,873 | + | 20,841 | 20,852 | 20,847 |
| COSTS $ | | | 138,051,040 | 135,102,136 | 273,153,176 | + | 11,504,253 | 9,006,809 | 10,116,784 |
| TOTAL WELLS | | 1,393 | 1,840 | 1,847 | 5,080 | | | | |
| TOTAL FOOTAGE | | 6,623,603 | 11,078,637 | 15,645,979 | 33,348,219 | 4,754 | 6,020 | 8,471 | 6,564 |
| TOTAL COSTS $ | | 974,891,925 | 2,050,439,764 | 2,265,479,858 | 5,290,811,547 | 699,850 | 1,114,369 | 1,226,572 | 1,041,498 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 23

## LOUISIANA - NORTH

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 298 | 33 | 25 | 356 | | | | |
| FOOTAGE | 0 - 1,249 | 289,694 | 30,912 | 24,668 | 345,274 | 972 | 936 | 986 | 969 |
| COSTS $ | | 9,327,580 | 692,529 | 397,611 | 10,417,720 | 31,300 | 20,985 | 15,904 | 29,263 |
| WELLS | | 248 | 899 | 113 | 1,260 | | | | |
| FOOTAGE | 1,250 - 2,499 | 439,715 | 2,054,304 | 231,942 | 2,725,961 | 1,773 | 2,285 | 2,052 | 2,163 |
| COSTS $ | | 13,906,554 | 38,699,690 | 2,922,601 | 55,528,845 | 56,074 | 43,047 | 25,863 | 44,070 |
| WELLS | | 228 | 109 | 268 | 605 | | | | |
| FOOTAGE | 2,500 - 3,749 | 692,612 | 321,955 | 794,248 | 1,808,815 | 3,037 | 2,953 | 2,963 | 2,989 |
| COSTS $ | | 26,801,100 | 9,933,385 | 11,471,457 | 48,205,942 | 117,548 | 91,131 | 42,803 | 79,679 |
| WELLS | | 29 | 12 | 88 | 129 | | | | |
| FOOTAGE | 3,750 - 4,999 | 123,136 | 48,624 | 385,272 | 557,034 | 4,246 | 4,052 | 4,378 | 4,318 |
| COSTS $ | | 4,719,777 | 2,516,931 | 6,681,849 | 13,918,557 | 162,750 | 209,744 | 75,930 | 107,895 |
| WELLS | | 90 | 42 | 177 | 309 | | | | |
| FOOTAGE | 5,000 - 7,499 | 553,407 | 272,733 | 1,104,371 | 1,930,511 | 6,148 | 6,493 | 6,239 | 6,247 |
| COSTS $ | | 26,414,860 | 17,823,105 | 26,250,822 | 70,488,787 | 293,498 | 424,359 | 148,309 | 228,119 |
| WELLS | | 16 | 78 | 63 | 157 | | | | |
| FOOTAGE | 7,500 - 9,999 | 138,610 | 692,989 | 552,262 | 1,383,861 | 8,663 | 8,884 | 8,766 | 8,814 |
| COSTS $ | | 11,229,840 | 63,789,913 | 27,284,024 | 102,303,777 | 701,865 | 817,819 | 433,079 | 651,616 |
| WELLS | | 15 | 40 | 36 | 91 | | | | |
| FOOTAGE | 10,000 - 12,499 | 163,185 | 443,987 | 395,140 | 1,002,312 | 10,879 | 11,099 | 10,976 | 11,014 |
| COSTS $ | | 17,044,875 | 57,787,129 | 29,564,046 | 104,396,050 | 1,136,325 | 1,444,678 | 821,223 | 1,147,209 |
| WELLS | | 1 | 19 | 10 | 30 | | | | |
| FOOTAGE | 12,500 - 14,999 | 14,950 | 252,792 | 136,963 | 404,705 | 14,950 | 13,304 | 13,696 | 13,490 |
| COSTS $ | | 1,904,750 | 53,516,936 | 21,169,266 | 76,590,952 | 1,904,750 | 2,816,680 | 2,116,926 | 2,553,031 |
| WELLS | | | 2 | 4 | 6 | | | | |
| FOOTAGE | 15,000 - 17,499 | | 31,445 | 64,076 | 95,521 | * | 15,722 | 16,019 | 15,920 |
| COSTS $ | | | 5,748,227 | 12,499,609 | 18,247,836 | * | 2,874,113 | 3,124,902 | 3,041,306 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 17,500 - 19,999 | | | 17,992 | 17,992 | * | * | 17,992 | 17,992 |
| COSTS $ | | | | 7,217,816 | 7,217,816 | * | * | 7,217,816 | 7,217,816 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 20,000 & OVER | | | 20,065 | 20,065 | * | * | 20,065 | 20,065 |
| COSTS $ | | | | 7,725,025 | 7,725,025 | * | * | 7,725,025 | 7,725,025 |
| TOTAL WELLS | | 925 | 1,234 | 786 | 2,945 | | | | |
| TOTAL FOOTAGE | | 2,415,311 | 4,149,741 | 3,726,999 | 10,292,051 | 2,611 | 3,362 | 4,741 | 3,494 |
| TOTAL COSTS $ | | 111,349,336 | 250,507,845 | 153,184,126 | 515,041,307 | 120,377 | 203,004 | 194,890 | 174,886 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1960

Table 24

LOUISIANA - SOUTH

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 5 | 1 | 3 | 9 | | | | |
| FOOTAGE | 0 - 1,249 | 4,838 | 1,080 | 3,127 | 9,045 | 967 | 1,080 | 1,042 | 1,005 |
| COSTS $ | | 128,739 | 232,200 | 1,396,557 | 1,757,496 | 25,747 | 232,200 | 465,519 | 195,277 |
| WELLS | | 10 | 1 | 9 | 20 | | | | |
| FOOTAGE | 1,250 - 2,499 | 22,371 | 1,700 | 17,789 | 41,860 | 2,237 | 1,700 | 1,976 | 2,093 |
| COSTS $ | | 1,190,402 | 314,500 | 1,031,470 | 2,536,372 | 119,040 | 314,500 | 114,607 | 126,818 |
| WELLS | | 26 | 1 | 11 | 38 | | | | |
| FOOTAGE | 2,500 - 3,749 | 82,926 | 2,600 | 32,716 | 118,242 | 3,189 | 2,600 | 2,974 | 3,111 |
| COSTS $ | | 6,279,651 | 327,438 | 2,016,841 | 8,623,930 | 241,525 | 327,438 | 183,349 | 226,945 |
| WELLS | | 40 | 7 | 16 | 63 | | | | |
| FOOTAGE | 3,750 - 4,999 | 174,665 | 29,370 | 69,640 | 273,675 | 4,366 | 4,195 | 4,352 | 4,344 |
| COSTS $ | | 11,300,496 | 1,987,502 | 4,043,989 | 17,331,987 | 282,512 | 283,928 | 252,749 | 275,110 |
| WELLS | | 40 | 9 | 41 | 90 | | | | |
| FOOTAGE | 5,000 - 7,499 | 237,899 | 59,125 | 258,785 | 555,809 | 5,947 | 6,569 | 6,311 | 6,175 |
| COSTS $ | | 19,809,163 | 4,812,290 | 10,878,532 | 35,499,985 | 495,229 | 534,698 | 265,330 | 394,444 |
| WELLS | | 74 | 50 | 148 | 272 | | | | |
| FOOTAGE | 7,500 - 9,999 | 657,598 | 458,180 | 1,319,495 | 2,435,273 | 8,886 | 9,163 | 8,915 | 8,953 |
| COSTS $ | | 61,804,227 | 41,429,687 | 85,914,873 | 189,148,787 | 835,192 | 828,593 | 580,505 | 695,399 |
| WELLS | | 50 | 88 | 246 | 384 | | | | |
| FOOTAGE | 10,000 - 12,499 | 553,191 | 983,259 | 2,776,366 | 4,312,816 | 11,063 | 11,173 | 11,286 | 11,231 |
| COSTS $ | | 56,945,249 | 117,107,388 | 265,928,916 | 439,981,553 | 1,138,904 | 1,330,765 | 1,081,011 | 1,145,785 |
| WELLS | | 28 | 82 | 131 | 241 | | | | |
| FOOTAGE | 12,500 - 14,999 | 379,623 | 1,126,512 | 1,782,629 | 3,288,764 | 13,557 | 13,737 | 13,607 | 13,646 |
| COSTS $ | | 65,170,722 | 221,474,094 | 246,464,040 | 533,108,856 | 2,327,525 | 2,700,903 | 1,881,404 | 2,212,069 |
| WELLS | | 14 | 38 | 81 | 133 | | | | |
| FOOTAGE | 15,000 - 17,499 | 221,867 | 605,042 | 1,307,932 | 2,134,841 | 15,847 | 15,922 | 16,147 | 16,051 |
| COSTS $ | | 50,813,484 | 170,530,437 | 298,231,096 | 519,575,017 | 3,629,534 | 4,487,643 | 3,681,865 | 3,906,579 |
| WELLS | | 3 | 18 | 32 | 53 | | | | |
| FOOTAGE | 17,500 - 19,999 | 55,135 | 337,389 | 587,084 | 979,608 | 18,378 | 18,743 | 18,346 | 18,483 |
| COSTS $ | | 34,677,252 | 128,964,114 | 155,409,932 | 319,051,298 | 11,559,084 | 7,164,673 | 4,856,560 | 6,019,835 |
| WELLS | | | 12 | 13 | 25 | | | | |
| FOOTAGE | 20,000 & OVER | | 250,093 | 272,267 | 522,360 | + | 20,841 | 20,943 | 20,894 |
| COSTS $ | | | 138,051,040 | 117,520,473 | 255,571,513 | + | 11,504,253 | 9,040,036 | 10,222,860 |
| TOTAL WELLS | | 290 | 307 | 731 | 1,328 | | | | |
| TOTAL FOOTAGE | | 2,390,113 | 3,854,350 | 8,427,830 | 14,672,293 | 8,241 | 12,554 | 11,529 | 11,048 |
| TOTAL COSTS $ | | 308,119,385 | 825,230,690 | 1,188,836,719 | 2,322,186,794 | 1,062,480 | 2,688,047 | 1,626,315 | 1,748,634 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 25

## LOUISIANA - OFFSHORE

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 0 - 1,249 | | | 957 | 957 | * | * | 957 | 957 |
| COSTS $ | | | | 1,306,839 | 1,306,839 | * | * | 1,306,839 | 1,306,839 |
| WELLS | | | 1 | 3 | 4 | | | | |
| FOOTAGE | 1,250 - 2,499 | | 2,300 | 6,160 | 8,460 | * | 2,300 | 2,053 | 2,115 |
| COSTS $ | | | 1,134,000 | 2,339,105 | 3,473,105 | * | 1,134,000 | 779,701 | 868,276 |
| WELLS | | 1 | 6 | 2 | 9 | | | | |
| FOOTAGE | 2,500 - 3,749 | 3,061 | 20,729 | 6,552 | 30,342 | 3,061 | 3,454 | 3,276 | 3,371 |
| COSTS $ | | 1,126,907 | 9,816,392 | 3,191,332 | 14,134,631 | 1,126,907 | 1,636,065 | 1,595,666 | 1,570,514 |
| WELLS | | 2 | 8 | 7 | 17 | | | | |
| FOOTAGE | 3,750 - 4,999 | 8,917 | 35,475 | 30,169 | 74,561 | 4,458 | 4,434 | 4,309 | 4,385 |
| COSTS $ | | 6,961,258 | 16,453,396 | 7,816,867 | 31,231,521 | 3,480,629 | 2,056,674 | 1,116,695 | 1,837,148 |
| WELLS | | 26 | 84 | 40 | 110 | | | | |
| FOOTAGE | 5,000 - 7,499 | 172,521 | 280,133 | 254,471 | 707,125 | 6,635 | 6,366 | 6,361 | 6,428 |
| COSTS $ | | 50,936,381 | 82,139,196 | 51,751,877 | 184,827,454 | 1,959,091 | 1,866,799 | 1,293,796 | 1,680,249 |
| WELLS | | 69 | 78 | 86 | 233 | | | | |
| FOOTAGE | 7,500 - 9,999 | 592,860 | 694,720 | 749,783 | 2,037,363 | 8,592 | 8,906 | 8,718 | 8,744 |
| COSTS $ | | 150,029,880 | 201,446,110 | 148,199,442 | 499,675,432 | 2,174,346 | 2,582,642 | 1,723,249 | 2,144,529 |
| WELLS | | 37 | 92 | 104 | 233 | | | | |
| FOOTAGE | 10,000 - 12,499 | 421,771 | 1,025,765 | 1,158,163 | 2,605,699 | 11,399 | 11,149 | 11,136 | 11,183 |
| COSTS $ | | 128,974,854 | 288,820,263 | 285,062,326 | 702,857,443 | 3,485,806 | 3,139,350 | 2,740,983 | 3,016,555 |
| WELLS | | 29 | 45 | 51 | 125 | | | | |
| FOOTAGE | 12,500 - 14,999 | 394,506 | 612,982 | 692,458 | 1,699,946 | 13,603 | 13,621 | 13,577 | 13,599 |
| COSTS $ | | 121,261,351 | 209,817,999 | 194,342,905 | 525,422,255 | 4,181,425 | 4,662,622 | 3,810,645 | 4,203,378 |
| WELLS | | 13 | 23 | 31 | 67 | | | | |
| FOOTAGE | 15,000 - 17,499 | 206,638 | 364,978 | 499,236 | 1,070,852 | 15,895 | 15,868 | 16,104 | 15,982 |
| COSTS $ | | 87,870,517 | 149,930,741 | 190,937,015 | 428,738,273 | 6,759,270 | 6,518,727 | 6,159,258 | 6,399,078 |
| WELLS | | 1 | 2 | 4 | 7 | | | | |
| FOOTAGE | 17,500 - 19,999 | 17,905 | 37,464 | 72,753 | 128,122 | 17,905 | 18,732 | 18,188 | 18,303 |
| COSTS $ | | 8,262,056 | 15,143,132 | 28,654,667 | 52,059,855 | 8,262,056 | 7,571,566 | 7,163,666 | 7,437,122 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 20,000 & OVER | | | 20,448 | 20,448 | * | * | 20,448 | 20,448 |
| COSTS $ | | | | 9,856,638 | 9,856,638 | * | * | 9,856,638 | 9,856,638 |
| TOTAL WELLS | | 178 | 299 | 330 | 807 | | | | |
| TOTAL FOOTAGE | | 1,818,179 | 3,074,546 | 3,491,150 | 8,383,875 | 10,214 | 10,282 | 10,579 | 10,388 |
| TOTAL COSTS $ | | 555,423,204 | 974,701,229 | 923,459,013 | 2,453,583,446 | 3,120,355 | 3,259,870 | 2,798,360 | 3,040,376 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 26

## MICHIGAN

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 9 | | 11 | 20 | | | | |
| FOOTAGE | 0 - 1,249 | 7,397 | | 9,877 | 17,274 | 821 | * | 897 | 863 |
| COSTS $ | | 451,912 | | 350,385 | 802,297 | 50,212 | * | 31,853 | 40,114 |
| WELLS | | 15 | 16 | 7 | 38 | | | | |
| FOOTAGE | 1,250 - 2,499 | 33,670 | 24,827 | 16,190 | 74,687 | 2,244 | 1,551 | 2,312 | 1,965 |
| COSTS $ | | 1,933,318 | 1,568,023 | 777,552 | 4,278,893 | 128,887 | 98,001 | 111,078 | 112,602 |
| WELLS | | 48 | 14 | 81 | 143 | | | | |
| FOOTAGE | 2,500 - 3,749 | 155,658 | 47,676 | 266,979 | 470,313 | 3,242 | 3,405 | 3,296 | 3,288 |
| COSTS $ | | 8,412,938 | 3,135,049 | 13,815,446 | 25,363,433 | 175,269 | 223,932 | 170,561 | 177,366 |
| WELLS | | 87 | 4 | 96 | 187 | | | | |
| FOOTAGE | 3,750 - 4,999 | 378,045 | 17,477 | 410,096 | 805,618 | 4,345 | 4,369 | 4,271 | 4,308 |
| COSTS $ | | 22,443,384 | 1,187,517 | 19,413,462 | 43,044,363 | 257,969 | 296,879 | 202,223 | 230,183 |
| WELLS | | 48 | 24 | 157 | 229 | | | | |
| FOOTAGE | 5,000 - 7,499 | 281,218 | 157,676 | 984,167 | 1,423,061 | 5,858 | 6,569 | 6,268 | 6,214 |
| COSTS $ | | 20,405,621 | 11,540,490 | 43,512,663 | 75,458,774 | 425,117 | 480,853 | 277,150 | 329,514 |
| WELLS | | 1 | | 4 | 5 | | | | |
| FOOTAGE | 7,500 - 9,999 | 7,615 | | 31,263 | 38,878 | 7,615 | * | 7,815 | 7,775 |
| COSTS $ | | 435,221 | | 1,482,158 | 1,917,379 | 435,221 | * | 370,539 | 383,475 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 10,000 - 12,499 | | | 10,107 | 10,107 | * | * | 10,107 | 10,107 |
| COSTS $ | | | | 859,095 | 859,095 | * | * | 859,095 | 859,095 |
| WELLS | | | | | | | | | |
| FOOTAGE | 12,500 - 14,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| TOTAL WELLS | | 208 | 58 | 357 | 623 | | | | |
| TOTAL FOOTAGE | | 863,603 | 247,656 | 1,728,679 | 2,839,938 | 4,151 | 4,269 | 4,842 | 4,558 |
| TOTAL COSTS $ | | 54,082,394 | 17,431,079 | 80,210,761 | 151,724,234 | 260,011 | 300,535 | 224,680 | 243,538 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 27

MISSISSIPPI

| DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|
| | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | | | | | | | |
| FOOTAGE 0 - 1,249 | | | | | + | + | + | + |
| COSTS $ | | | | | + | + | + | + |
| WELLS | | 1 | 1 | 2 | | | | |
| FOOTAGE 1,250 - 2,499 | | 2,485 | 2,370 | 4,855 | + | 2,485 | 2,370 | 2,427 |
| COSTS $ | | 231,307 | 94,497 | 325,804 | + | 231,307 | 94,497 | 162,902 |
| WELLS | 2 | 2 | 9 | 13 | | | | |
| FOOTAGE 2,500 - 3,749 | 6,125 | 5,704 | 28,099 | 39,928 | 3,062 | 2,852 | 3,122 | 3,071 |
| COSTS $ | 456,236 | 562,623 | 659,054 | 1,677,913 | 228,118 | 281,311 | 73,228 | 129,070 |
| WELLS | 20 | 3 | 34 | 57 | | | | |
| FOOTAGE 3,750 - 4,999 | 89,718 | 13,085 | 152,788 | 255,591 | 4,485 | 4,361 | 4,493 | 4,484 |
| COSTS $ | 3,952,063 | 1,389,736 | 2,772,936 | 8,114,735 | 197,603 | 463,245 | 81,556 | 142,363 |
| WELLS | 77 | 7 | 227 | 311 | | | | |
| FOOTAGE 5,000 - 7,499 | 492,386 | 40,100 | 1,451,498 | 1,983,984 | 6,394 | 5,728 | 6,394 | 6,379 |
| COSTS $ | 23,610,911 | 4,076,868 | 29,248,447 | 56,936,226 | 306,635 | 582,409 | 128,847 | 183,074 |
| WELLS | 44 | 7 | 38 | 89 | | | | |
| FOOTAGE 7,500 - 9,999 | 389,154 | 66,989 | 311,058 | 767,201 | 8,844 | 9,569 | 8,185 | 8,620 |
| COSTS $ | 26,518,362 | 7,018,548 | 10,347,403 | 43,884,313 | 602,690 | 1,002,649 | 272,300 | 493,082 |
| WELLS | 10 | 4 | 27 | 41 | | | | |
| FOOTAGE 10,000 - 12,499 | 114,685 | 48,386 | 300,634 | 463,705 | 11,468 | 12,096 | 11,134 | 11,309 |
| COSTS $ | 12,636,875 | 5,847,633 | 17,121,905 | 35,606,413 | 1,263,687 | 1,461,908 | 634,144 | 868,449 |
| WELLS | 10 | 7 | 30 | 47 | | | | |
| FOOTAGE 12,500 - 14,999 | 132,329 | 95,744 | 415,104 | 643,177 | 13,232 | 13,677 | 13,836 | 13,684 |
| COSTS $ | 18,482,407 | 12,521,931 | 32,212,000 | 63,216,338 | 1,848,240 | 1,788,847 | 1,073,733 | 1,345,028 |
| WELLS | 7 | 35 | 48 | 90 | | | | |
| FOOTAGE 15,000 - 17,499 | 113,127 | 577,019 | 782,917 | 1,473,063 | 16,161 | 16,486 | 16,310 | 16,367 |
| COSTS $ | 13,895,180 | 102,652,371 | 87,130,665 | 203,678,216 | 1,985,025 | 2,932,924 | 1,815,222 | 2,263,091 |
| WELLS | | 3 | 13 | 16 | | | | |
| FOOTAGE 17,500 - 19,999 | | 56,319 | 233,804 | 290,123 | + | 18,773 | 17,984 | 18,132 |
| COSTS $ | | 13,582,014 | 32,533,197 | 46,115,211 | + | 4,527,338 | 2,502,553 | 2,882,200 |
| WELLS | | 4 | 4 | 8 | | | | |
| FOOTAGE 20,000 & OVER | | 86,425 | 84,386 | 170,811 | + | 21,606 | 21,096 | 21,351 |
| COSTS $ | | 40,248,840 | 18,538,192 | 58,787,032 | + | 10,062,210 | 4,634,548 | 7,348,379 |
| TOTAL WELLS | 170 | 73 | 431 | 674 | | | | |
| TOTAL FOOTAGE | 1,337,524 | 992,256 | 3,762,658 | 6,092,438 | 7,867 | 13,592 | 8,730 | 9,039 |
| TOTAL COSTS $ | 99,552,034 | 188,131,871 | 230,658,296 | 518,342,201 | 585,600 | 2,577,148 | 535,170 | 769,053 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 28

## MONTANA

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 2 | 40 | 23 | 65 | | | | |
| FOOTAGE | 0 - 1,249 | 1,712 | 41,579 | 23,285 | 66,576 | 856 | 1,039 | 1,012 | 1,024 |
| COSTS $ | | 124,889 | 1,589,478 | 2,213,192 | 3,927,559 | 62,444 | 39,736 | 96,225 | 60,423 |
| WELLS | | 42 | 127 | 153 | 322 | | | | |
| FOOTAGE | 1,250 - 2,499 | 72,731 | 213,036 | 285,948 | 571,715 | 1,731 | 1,677 | 1,868 | 1,775 |
| COSTS $ | | 4,666,451 | 7,659,793 | 8,952,117 | 21,278,361 | 111,105 | 60,313 | 58,510 | 66,081 |
| WELLS | | 25 | 23 | 74 | 122 | | | | |
| FOOTAGE | 2,500 - 3,749 | 74,493 | 68,894 | 219,799 | 363,186 | 2,979 | 2,995 | 2,970 | 2,976 |
| COSTS $ | | 2,378,867 | 2,087,661 | 7,030,249 | 11,496,777 | 95,154 | 90,767 | 95,003 | 94,235 |
| WELLS | | 18 | 2 | 48 | 68 | | | | |
| FOOTAGE | 3,750 - 4,999 | 77,588 | 7,632 | 206,153 | 291,373 | 4,310 | 3,816 | 4,294 | 4,284 |
| COSTS $ | | 2,775,768 | 220,698 | 6,622,713 | 9,619,179 | 154,209 | 110,349 | 137,973 | 141,458 |
| WELLS | | 31 | 2 | 33 | 66 | | | | |
| FOOTAGE | 5,000 - 7,499 | 197,320 | 12,929 | 202,835 | 413,084 | 6,365 | 6,464 | 6,146 | 6,258 |
| COSTS $ | | 11,076,863 | 1,082,016 | 11,563,081 | 23,721,960 | 357,318 | 541,008 | 350,396 | 359,423 |
| WELLS | | 31 | 1 | 29 | 61 | | | | |
| FOOTAGE | 7,500 - 9,999 | 281,691 | 9,244 | 242,643 | 533,578 | 9,086 | 9,244 | 8,367 | 8,747 |
| COSTS $ | | 24,322,622 | 1,155,500 | 16,563,082 | 42,041,204 | 784,600 | 1,155,500 | 571,140 | 689,200 |
| WELLS | | 32 | | 28 | 60 | | | | |
| FOOTAGE | 10,000 - 12,499 | 359,381 | | 312,814 | 672,195 | 11,230 | * | 11,171 | 11,203 |
| COSTS $ | | 40,571,325 | | 33,291,575 | 73,862,900 | 1,267,853 | * | 1,188,984 | 1,231,048 |
| WELLS | | 30 | | 16 | 46 | | | | |
| FOOTAGE | 12,500 - 14,999 | 383,141 | | 203,066 | 586,207 | 12,771 | * | 12,691 | 12,743 |
| COSTS $ | | 41,587,492 | | 16,523,809 | 58,111,301 | 1,386,249 | * | 1,032,738 | 1,263,289 |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| TOTAL WELLS | | 211 | 195 | 404 | 810 | | | | |
| TOTAL FOOTAGE | | 1,448,057 | 353,314 | 1,696,543 | 3,497,914 | 6,862 | 1,811 | 4,199 | 4,318 |
| TOTAL COSTS $ | | 127,504,277 | 13,795,146 | 102,759,818 | 244,059,241 | 604,285 | 70,744 | 254,355 | 301,307 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 29

## NEBRASKA

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 0 - 1,249 | | | 1,249 | 1,249 | + | + | 1,249 | 1,249 |
| COSTS $ | | | | 62,450 | 62,450 | + | + | 62,450 | 62,450 |
| WELLS | | 1 | | 34 | 35 | | | | |
| FOOTAGE | 1,250 - 2,499 | 2,170 | | 74,676 | 76,846 | 2,170 | + | 2,196 | 2,195 |
| COSTS $ | | 104,160 | | 2,208,884 | 2,313,044 | 104,160 | + | 64,967 | 66,086 |
| WELLS | | 26 | 1 | 24 | 51 | | | | |
| FOOTAGE | 2,500 - 3,749 | 91,039 | 2,507 | 79,121 | 172,667 | 3,501 | 2,507 | 3,296 | 3,385 |
| COSTS $ | | 2,597,603 | 97,773 | 1,888,863 | 4,584,239 | 99,907 | 97,773 | 78,702 | 89,887 |
| WELLS | | 103 | 1 | 112 | 216 | | | | |
| FOOTAGE | 3,750 - 4,999 | 447,641 | 4,740 | 497,529 | 949,910 | 4,346 | 4,740 | 4,442 | 4,397 |
| COSTS $ | | 15,483,080 | 165,900 | 7,959,914 | 23,608,894 | 150,321 | 165,900 | 71,070 | 109,300 |
| WELLS | | 49 | 1 | 142 | 192 | | | | |
| FOOTAGE | 5,000 - 7,499 | 292,863 | 5,150 | 858,440 | 1,156,453 | 5,976 | 5,150 | 6,045 | 6,023 |
| COSTS $ | | 9,693,620 | 185,400 | 13,069,523 | 22,948,543 | 197,828 | 185,400 | 92,038 | 119,523 |
| WELLS | | 1 | | 2 | 3 | | | | |
| FOOTAGE | 7,500 - 9,999 | 8,050 | | 15,154 | 23,204 | 8,050 | + | 7,577 | 7,734 |
| COSTS $ | | 464,822 | | 377,966 | 842,788 | 464,822 | + | 188,983 | 280,929 |
| WELLS | | | | | | | | | |
| FOOTAGE | 10,000 - 12,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 12,500 - 14,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 180 | 3 | 315 | 498 | | | | |
| TOTAL FOOTAGE | | 841,763 | 12,397 | 1,526,169 | 2,380,329 | 4,676 | 4,132 | 4,844 | 4,779 |
| TOTAL COSTS $ | | 28,343,285 | 449,073 | 25,567,600 | 54,359,958 | 157,462 | 149,691 | 81,166 | 109,156 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 30

## NEW MEXICO - TOTAL

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| | | | | | | | | | |
| WELLS | | 39 | 7 | 42 | 88 | | | | |
| FOOTAGE | 0 - 1,249 | 31,627 | 8,303 | 27,423 | 67,353 | 810 | 1,186 | 652 | 765 |
| COSTS $ | | 1,489,938 | 281,840 | 1,942,923 | 3,714,701 | 38,203 | 40,262 | 46,260 | 42,212 |
| WELLS | | 54 | 111 | 47 | 212 | | | | |
| FOOTAGE | 1,250 - 2,499 | 102,906 | 201,435 | 84,625 | 388,966 | 1,905 | 1,814 | 1,800 | 1,834 |
| COSTS $ | | 6,263,326 | 7,939,682 | 5,168,719 | 19,371,727 | 115,987 | 71,528 | 109,972 | 91,376 |
| WELLS | | 164 | 107 | 37 | 308 | | | | |
| FOOTAGE | 2,500 - 3,749 | 513,116 | 343,640 | 116,263 | 973,019 | 3,128 | 3,211 | 3,142 | 3,159 |
| COSTS $ | | 29,439,038 | 17,075,265 | 7,320,066 | 53,834,369 | 179,506 | 159,581 | 197,839 | 174,786 |
| WELLS | | 175 | 92 | 29 | 296 | | | | |
| FOOTAGE | 3,750 - 4,999 | 759,749 | 405,637 | 125,299 | 1,290,685 | 4,341 | 4,409 | 4,320 | 4,360 |
| COSTS $ | | 41,959,318 | 23,836,613 | 7,217,715 | 73,013,646 | 239,767 | 259,093 | 248,886 | 246,667 |
| WELLS | | 119 | 473 | 24 | 616 | | | | |
| FOOTAGE | 5,000 - 7,499 | 774,604 | 3,065,531 | 143,863 | 3,983,998 | 6,509 | 6,481 | 5,994 | 6,467 |
| COSTS $ | | 53,061,396 | 170,364,631 | 6,453,780 | 229,879,807 | 445,894 | 360,178 | 268,907 | 373,181 |
| WELLS | | 95 | 139 | 35 | 269 | | | | |
| FOOTAGE | 7,500 - 9,999 | 768,259 | 1,142,192 | 302,758 | 2,213,209 | 8,086 | 8,217 | 8,650 | 8,227 |
| COSTS $ | | 57,845,602 | 67,542,502 | 17,976,628 | 143,364,732 | 608,901 | 485,917 | 513,617 | 532,954 |
| WELLS | | 44 | 79 | 24 | 147 | | | | |
| FOOTAGE | 10,000 - 12,499 | 484,501 | 895,725 | 268,718 | 1,648,944 | 11,011 | 11,338 | 11,196 | 11,217 |
| COSTS $ | | 36,530,137 | 70,770,959 | 21,620,629 | 128,921,725 | 830,230 | 895,834 | 900,859 | 877,018 |
| WELLS | | 10 | 57 | 16 | 83 | | | | |
| FOOTAGE | 12,500 - 14,999 | 135,060 | 765,715 | 213,313 | 1,114,088 | 13,506 | 13,433 | 13,332 | 13,422 |
| COSTS $ | | 13,382,127 | 90,132,631 | 18,810,432 | 122,325,190 | 1,338,212 | 1,581,274 | 1,175,652 | 1,473,797 |
| WELLS | | 2 | 8 | | 10 | | | | |
| FOOTAGE | 15,000 - 17,499 | 32,199 | 126,259 | | 158,458 | 16,099 | 15,782 | * | 15,845 |
| COSTS $ | | 7,148,865 | 20,402,986 | | 27,551,851 | 3,574,432 | 2,550,373 | * | 2,755,185 |
| WELLS | | | 1 | | 1 | | | | |
| FOOTAGE | 17,500 - 19,999 | | 18,577 | | 18,577 | * | 18,577 | * | 18,577 |
| COSTS $ | | | 3,471,825 | | 3,471,825 | * | 3,471,825 | * | 3,471,825 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 20,000 & OVER | | | 21,266 | 21,266 | * | * | 21,266 | 21,266 |
| COSTS $ | | | | 4,292,565 | 4,292,565 | * | * | 4,292,565 | 4,292,565 |
| TOTAL WELLS | | 702 | 1,074 | 255 | 2,031 | | | | |
| TOTAL FOOTAGE | | 3,602,021 | 6,973,014 | 1,303,528 | 11,878,563 | 5,131 | 6,492 | 5,111 | 5,848 |
| TOTAL COSTS $ | | 247,119,747 | 471,818,934 | 90,803,457 | 809,742,138 | 352,022 | 439,309 | 356,091 | 398,691 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 31

NEW MEXICO - WEST

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 15 | 7 | 11 | 33 | | | | |
| FOOTAGE | 0 - 1,249 | 11,517 | 8,303 | 8,192 | 28,012 | 767 | 1,186 | 744 | 848 |
| COSTS $ | | 215,335 | 281,840 | 161,586 | 658,761 | 14,355 | 40,262 | 14,689 | 19,962 |
| WELLS | | 9 | 108 | 26 | 143 | | | | |
| FOOTAGE | 1,250 - 2,499 | 15,479 | 195,908 | 42,263 | 253,650 | 1,719 | 1,813 | 1,625 | 1,773 |
| COSTS $ | | 779,613 | 7,714,274 | 1,301,649 | 9,795,536 | 86,623 | 71,428 | 50,063 | 68,500 |
| WELLS | | 1 | 63 | 12 | 76 | | | | |
| FOOTAGE | 2,500 - 3,749 | 3,001 | 195,236 | 40,246 | 238,483 | 3,001 | 3,098 | 3,353 | 3,137 |
| COSTS $ | | 155,280 | 8,343,066 | 1,405,489 | 9,903,835 | 155,280 | 132,429 | 117,124 | 130,313 |
| WELLS | | 5 | 52 | 11 | 68 | | | | |
| FOOTAGE | 3,750 - 4,999 | 23,596 | 238,354 | 47,013 | 308,963 | 4,719 | 4,583 | 4,273 | 4,543 |
| COSTS $ | | 975,311 | 12,092,824 | 1,730,591 | 14,798,726 | 195,062 | 232,554 | 157,326 | 217,628 |
| WELLS | | 63 | 454 | 13 | 530 | | | | |
| FOOTAGE | 5,000 - 7,499 | 403,628 | 2,949,977 | 77,199 | 3,430,804 | 6,406 | 6,497 | 5,938 | 6,473 |
| COSTS $ | | 27,130,543 | 161,496,483 | 2,802,146 | 191,429,172 | 430,643 | 355,719 | 215,549 | 361,187 |
| WELLS | | 56 | 96 | 3 | 155 | | | | |
| FOOTAGE | 7,500 - 9,999 | 434,141 | 753,553 | 24,667 | 1,212,361 | 7,752 | 7,849 | 8,222 | 7,821 |
| COSTS $ | | 34,272,552 | 43,526,455 | 1,244,868 | 79,043,875 | 612,009 | 453,400 | 414,956 | 509,960 |
| WELLS | | | | | | | | | |
| FOOTAGE | 10,000 - 12,499 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 12,500 - 14,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 20,000 & OVER | | | 21,266 | 21,266 | * | * | 21,266 | 21,266 |
| COSTS $ | | | | 4,292,565 | 4,292,565 | * | * | 4,292,565 | 4,292,565 |
| TOTAL WELLS | | 149 | 780 | 77 | 1,006 | | | | |
| TOTAL FOOTAGE | | 891,362 | 4,341,331 | 260,846 | 5,493,539 | 5,982 | 5,565 | 3,387 | 5,460 |
| TOTAL COSTS $ | | 63,528,634 | 233,454,942 | 12,938,894 | 309,922,470 | 426,366 | 299,301 | 168,037 | 308,074 |

Table 32

## ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

### NEW MEXICO - EAST

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | 0 - 1,249 | 24 | | 31 | 55 | 837 | * | 620 | 715 |
| FOOTAGE | | 20,110 | | 19,231 | 39,341 | 53,108 | * | 57,462 | 55,562 |
| COSTS $ | | 1,274,603 | | 1,781,337 | 3,055,940 | | | | |
| WELLS | 1,250 - 2,499 | 45 | 3 | 21 | 69 | 1,942 | 1,842 | 2,017 | 1,961 |
| FOOTAGE | | 87,427 | 5,527 | 42,362 | 135,316 | 121,860 | 75,136 | 184,146 | 138,785 |
| COSTS $ | | 5,483,713 | 225,408 | 3,867,070 | 9,576,191 | | | | |
| WELLS | 2,500 - 3,749 | 163 | 44 | 25 | 232 | 3,129 | 3,372 | 3,040 | 3,166 |
| FOOTAGE | | 510,115 | 148,404 | 76,017 | 734,536 | 179,654 | 198,459 | 236,583 | 189,355 |
| COSTS $ | | 29,263,758 | 8,732,199 | 5,914,577 | 43,930,534 | | | | |
| WELLS | 3,750 - 4,999 | 170 | 40 | 18 | 228 | 4,330 | 4,182 | 4,349 | 4,305 |
| FOOTAGE | | 736,153 | 167,283 | 78,286 | 981,722 | 241,082 | 293,594 | 304,840 | 255,328 |
| COSTS $ | | 40,984,007 | 11,743,789 | 5,487,124 | 58,214,920 | | | | |
| WELLS | 5,000 - 7,499 | 56 | 19 | 11 | 86 | 6,624 | 6,081 | 6,060 | 6,432 |
| FOOTAGE | | 370,976 | 115,554 | 66,604 | 553,134 | 463,050 | 466,744 | 331,966 | 447,100 |
| COSTS $ | | 25,930,853 | 8,868,148 | 3,651,634 | 38,450,635 | | | | |
| WELLS | 7,500 - 9,999 | 39 | 43 | 32 | 114 | 8,567 | 9,038 | 8,690 | 8,779 |
| FOOTAGE | | 334,118 | 388,639 | 278,091 | 1,000,848 | 604,437 | 558,512 | 522,867 | 564,218 |
| COSTS $ | | 23,573,050 | 24,016,047 | 16,731,760 | 64,320,857 | | | | |
| WELLS | 10,000 - 12,499 | 44 | 79 | 24 | 147 | 11,011 | 11,338 | 11,196 | 11,217 |
| FOOTAGE | | 484,501 | 895,725 | 268,718 | 1,648,944 | 830,230 | 895,834 | 900,859 | 877,018 |
| COSTS $ | | 36,530,137 | 70,770,959 | 21,620,629 | 128,921,725 | | | | |
| WELLS | 12,500 - 14,999 | 10 | 57 | 16 | 83 | 13,506 | 13,433 | 13,332 | 13,422 |
| FOOTAGE | | 135,060 | 765,715 | 213,313 | 1,114,088 | 1,338,212 | 1,581,274 | 1,175,652 | 1,473,797 |
| COSTS $ | | 13,382,127 | 90,132,631 | 18,810,432 | 122,325,190 | | | | |
| WELLS | 15,000 - 17,499 | 2 | 8 | | 10 | 16,099 | 15,782 | * | 15,845 |
| FOOTAGE | | 32,199 | 126,259 | | 158,458 | 3,574,432 | 2,550,373 | * | 2,755,185 |
| COSTS $ | | 7,148,865 | 20,402,986 | | 27,551,851 | | | | |
| WELLS | 17,500 - 19,999 | | 1 | | 1 | * | 18,577 | * | 18,577 |
| FOOTAGE | | | 18,577 | | 18,577 | * | 3,471,825 | * | 3,471,825 |
| COSTS $ | | | 3,471,825 | | 3,471,825 | | | | |
| WELLS | 20,000 & OVER | | | | | * | * | * | * |
| FOOTAGE | | | | | | * | * | * | * |
| COSTS $ | | | | | | | | | |
| TOTAL WELLS | | 553 | 294 | 178 | 1,025 | 4,901 | 8,951 | 5,857 | 6,229 |
| TOTAL FOOTAGE | | 2,710,659 | 2,631,683 | 1,042,662 | 6,385,024 | 331,991 | 810,761 | 437,441 | 487,628 |
| TOTAL COSTS $ | | 183,591,113 | 238,363,992 | 77,864,503 | 499,819,668 | | | | |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 33

NORTH DAKOTA

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| 0 - 1,249 | WELLS | | | | | | | | |
| | FOOTAGE | | | | | + | + | + | + |
| | COSTS $ | | | | | + | + | + | + |
| 1,250 - 2,499 | WELLS | | 8 | 7 | 15 | | | | |
| | FOOTAGE | | 12,708 | 12,794 | 25,502 | + | 1,588 | 1,827 | 1,700 |
| | COSTS $ | | 571,423 | 364,308 | 935,731 | + | 71,427 | 52,044 | 62,382 |
| 2,500 - 3,749 | WELLS | 8 | | 17 | 25 | | | | |
| | FOOTAGE | 26,900 | | 56,695 | 83,595 | 3,362 | + | 3,335 | 3,343 |
| | COSTS $ | 1,642,411 | | 2,032,651 | 3,675,062 | 205,301 | + | 119,567 | 147,002 |
| 3,750 - 4,999 | WELLS | 37 | | 14 | 51 | | | | |
| | FOOTAGE | 162,867 | | 60,801 | 223,668 | 4,401 | + | 4,342 | 4,385 |
| | COSTS $ | 11,482,836 | | 2,901,685 | 14,384,521 | 310,346 | + | 207,263 | 282,049 |
| 5,000 - 7,499 | WELLS | 12 | | 45 | 57 | | | | |
| | FOOTAGE | 75,480 | | 274,997 | 350,477 | 6,290 | + | 6,111 | 6,148 |
| | COSTS $ | 4,837,437 | | 12,341,152 | 17,178,589 | 403,119 | + | 274,247 | 301,378 |
| 7,500 - 9,999 | WELLS | 144 | | 57 | 201 | | | | |
| | FOOTAGE | 1,367,035 | | 522,377 | 1,889,412 | 9,493 | + | 9,164 | 9,400 |
| | COSTS $ | 113,385,116 | | 34,085,976 | 147,471,092 | 787,396 | + | 597,999 | 733,687 |
| 10,000 - 12,499 | WELLS | 62 | | 41 | 103 | | | | |
| | FOOTAGE | 690,216 | | 453,893 | 1,144,109 | 11,132 | + | 11,070 | 11,107 |
| | COSTS $ | 79,982,847 | | 38,916,560 | 118,899,407 | 1,290,045 | + | 949,184 | 1,154,363 |
| 12,500 - 14,999 | WELLS | 75 | 2 | 46 | 123 | | | | |
| | FOOTAGE | 1,000,493 | 29,172 | 629,923 | 1,659,588 | 13,339 | 14,586 | 13,693 | 13,492 |
| | COSTS $ | 130,017,821 | 5,312,861 | 74,624,952 | 209,955,634 | 1,733,570 | 2,656,430 | 1,622,281 | 1,706,956 |
| 15,000 - 17,499 | WELLS | | | | | | | | |
| | FOOTAGE | | | | | + | + | + | + |
| | COSTS $ | | | | | + | + | + | + |
| 17,500 - 19,999 | WELLS | | | | | | | | |
| | FOOTAGE | | | | | + | + | + | + |
| | COSTS $ | | | | | + | + | + | + |
| 20,000 & OVER | WELLS | | | | | | | | |
| | FOOTAGE | | | | | + | + | + | + |
| | COSTS $ | | | | | + | + | + | + |
| TOTAL WELLS | | 338 | 10 | 227 | 575 | | | | |
| TOTAL FOOTAGE | | 3,322,991 | 41,880 | 2,011,480 | 5,376,351 | 9,831 | 4,188 | 8,861 | 9,350 |
| TOTAL COSTS $ | | 341,348,468 | 5,884,284 | 165,267,284 | 512,500,036 | 1,009,906 | 588,428 | 728,049 | 891,304 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 34

## OKLAHOMA

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | AVERAGE DEPTH AND COST PER WELL: OIL | GAS | DRY | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| WELLS | | 817 | 299 | 215 | 1,331 | | | | |
| FOOTAGE | 0 - 1,249 | 738,025 | 291,693 | 180,520 | 1,210,238 | 903 | 975 | 839 | 909 |
| COSTS $ | | 31,457,400 | 8,749,514 | 4,466,502 | 44,673,416 | 38,503 | 29,262 | 20,774 | 33,563 |
| WELLS | | 1,165 | 263 | 453 | 1,881 | | | | |
| FOOTAGE | 1,250 - 2,499 | 2,112,238 | 449,523 | 857,572 | 3,419,333 | 1,813 | 1,709 | 1,893 | 1,817 |
| COSTS $ | | 86,677,418 | 17,800,821 | 21,157,537 | 125,635,776 | 74,401 | 67,683 | 46,705 | 66,792 |
| WELLS | | 684 | 175 | 415 | 1,274 | | | | |
| FOOTAGE | 2,500 - 3,749 | 2,057,144 | 543,805 | 1,283,381 | 3,884,330 | 3,007 | 3,107 | 3,092 | 3,048 |
| COSTS $ | | 90,842,576 | 26,638,238 | 36,180,302 | 153,661,116 | 132,810 | 152,218 | 87,181 | 120,615 |
| WELLS | | 448 | 106 | 332 | 886 | | | | |
| FOOTAGE | 3,750 - 4,999 | 1,978,275 | 465,437 | 1,462,852 | 3,906,564 | 4,415 | 4,390 | 4,406 | 4,409 |
| COSTS $ | | 93,547,237 | 25,021,827 | 47,626,515 | 166,195,579 | 208,810 | 236,054 | 143,453 | 187,579 |
| WELLS | | 714 | 318 | 483 | 1,515 | | | | |
| FOOTAGE | 5,000 - 7,499 | 4,438,575 | 2,060,713 | 2,928,458 | 9,427,746 | 6,216 | 6,480 | 6,063 | 6,222 |
| COSTS $ | | 241,924,562 | 116,201,853 | 119,553,607 | 477,680,042 | 338,829 | 365,414 | 247,522 | 315,300 |
| WELLS | | 767 | 304 | 190 | 1,261 | | | | |
| FOOTAGE | 7,500 - 9,999 | 6,590,678 | 2,626,322 | 1,619,935 | 10,836,935 | 8,592 | 8,639 | 8,525 | 8,593 |
| COSTS $ | | 421,403,043 | 172,415,835 | 84,611,788 | 678,430,666 | 549,417 | 567,157 | 445,325 | 538,010 |
| WELLS | | 141 | 222 | 75 | 438 | | | | |
| FOOTAGE | 10,000 - 12,499 | 1,510,797 | 2,436,529 | 842,764 | 4,790,090 | 10,714 | 10,975 | 11,236 | 10,936 |
| COSTS $ | | 125,778,928 | 202,166,715 | 65,284,621 | 393,230,264 | 892,049 | 910,660 | 870,461 | 897,785 |
| WELLS | | 17 | 139 | 50 | 206 | | | | |
| FOOTAGE | 12,500 - 14,999 | 231,148 | 1,877,539 | 674,456 | 2,783,143 | 13,596 | 13,507 | 13,489 | 13,510 |
| COSTS $ | | 28,508,913 | 226,772,862 | 80,126,270 | 335,408,045 | 1,676,994 | 1,631,459 | 1,602,525 | 1,628,194 |
| WELLS | | 4 | 78 | 20 | 102 | | | | |
| FOOTAGE | 15,000 - 17,499 | 64,048 | 1,256,367 | 325,192 | 1,645,607 | 16,012 | 16,107 | 16,259 | 16,133 |
| COSTS $ | | 11,420,369 | 248,006,283 | 57,041,849 | 316,468,501 | 2,855,092 | 3,179,567 | 2,852,092 | 3,102,632 |
| WELLS | | 1 | 18 | 6 | 25 | | | | |
| FOOTAGE | 17,500 - 19,999 | 17,725 | 331,541 | 110,023 | 459,289 | 17,725 | 18,418 | 18,337 | 18,371 |
| COSTS $ | | 4,057,758 | 92,152,896 | 22,212,678 | 118,423,332 | 4,057,758 | 5,119,605 | 3,702,113 | 4,736,933 |
| WELLS | | | 7 | 6 | 13 | | | | |
| FOOTAGE | 20,000 & OVER | | 146,321 | 134,858 | 281,179 | * | 20,903 | 22,476 | 21,629 |
| COSTS $ | | | 53,455,082 | 55,229,324 | 108,684,406 | * | 7,636,440 | 9,204,887 | 8,360,338 |
| TOTAL WELLS | | 4,758 | 1,929 | 2,245 | 8,932 | | | | |
| TOTAL FOOTAGE | | 19,738,653 | 12,485,790 | 10,420,011 | 42,644,454 | 4,148 | 6,472 | 4,641 | 4,774 |
| TOTAL COSTS $ | | 1,135,618,224 | 1,189,381,926 | 593,490,993 | 2,918,491,143 | 238,675 | 616,579 | 264,361 | 326,745 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 35

TEXAS - TOTAL

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 1,121 | 51 | 632 | 1,804 | | | | |
| FOOTAGE | 0 - 1,249 | 890,187 | 44,612 | 476,010 | 1,410,809 | 794 | 874 | 753 | 782 |
| COSTS $ | | 26,419,824 | 1,885,404 | 10,690,271 | 38,995,499 | 23,565 | 36,968 | 16,914 | 21,616 |
| WELLS | | 1,582 | 189 | 739 | 2,510 | | | | |
| FOOTAGE | 1,250 - 2,499 | 2,857,097 | 363,087 | 1,352,777 | 4,572,961 | 1,806 | 1,921 | 1,830 | 1,821 |
| COSTS $ | | 103,002,857 | 15,435,775 | 32,871,514 | 151,310,146 | 65,109 | 81,670 | 44,481 | 60,282 |
| WELLS | | 1,699 | 280 | 609 | 2,588 | | | | |
| FOOTAGE | 2,500 - 3,749 | 5,302,379 | 885,878 | 1,908,617 | 8,096,874 | 3,120 | 3,163 | 3,134 | 3,128 |
| COSTS $ | | 231,172,615 | 38,699,386 | 53,222,333 | 323,094,334 | 136,063 | 138,212 | 87,392 | 124,843 |
| WELLS | | 1,492 | 384 | 811 | 2,687 | | | | |
| FOOTAGE | 3,750 - 4,999 | 6,657,824 | 1,681,124 | 3,552,517 | 11,891,465 | 4,462 | 4,377 | 4,380 | 4,425 |
| COSTS $ | | 282,805,475 | 86,547,403 | 106,586,817 | 475,939,695 | 189,547 | 225,333 | 131,426 | 177,126 |
| WELLS | | 2,031 | 980 | 1,225 | 4,236 | | | | |
| FOOTAGE | 5,000 - 7,499 | 12,457,227 | 6,068,983 | 7,463,876 | 25,990,086 | 6,133 | 6,192 | 6,092 | 6,135 |
| COSTS $ | | 609,026,707 | 344,447,143 | 297,857,215 | 1,251,331,065 | 299,865 | 351,476 | 243,148 | 295,403 |
| WELLS | | 1,716 | 838 | 802 | 3,356 | | | | |
| FOOTAGE | 7,500 - 9,999 | 14,795,189 | 7,302,283 | 6,917,011 | 29,014,483 | 8,621 | 8,713 | 8,624 | 8,645 |
| COSTS $ | | 1,009,933,553 | 628,817,948 | 399,970,081 | 2,038,721,582 | 588,539 | 750,379 | 498,715 | 607,485 |
| WELLS | | 259 | 593 | 344 | 1,196 | | | | |
| FOOTAGE | 10,000 - 12,499 | 2,820,403 | 6,491,377 | 3,803,717 | 13,115,497 | 10,889 | 10,946 | 11,057 | 10,966 |
| COSTS $ | | 251,929,175 | 848,549,318 | 365,545,425 | 1,466,023,918 | 972,699 | 1,430,943 | 1,062,632 | 1,225,772 |
| WELLS | | 32 | 154 | 111 | 297 | | | | |
| FOOTAGE | 12,500 - 14,999 | 421,600 | 2,090,015 | 1,491,803 | 4,003,418 | 13,175 | 13,571 | 13,439 | 13,479 |
| COSTS $ | | 47,360,997 | 387,574,797 | 277,641,398 | 712,577,192 | 1,480,031 | 2,516,719 | 2,501,273 | 2,399,249 |
| WELLS | | * | 59 | 39 | 102 | | | | |
| FOOTAGE | 15,000 - 17,499 | 63,118 | 945,893 | 625,771 | 1,634,782 | 15,779 | 16,032 | 16,045 | 16,027 |
| COSTS $ | | 9,438,540 | 213,782,833 | 151,783,240 | 375,004,613 | 2,359,635 | 3,623,437 | 3,891,877 | 3,676,515 |
| WELLS | | 1 | 15 | * | 25 | | | | |
| FOOTAGE | 17,500 - 19,999 | 18,570 | 276,585 | 168,181 | 463,336 | 18,570 | 18,439 | 18,686 | 18,533 |
| COSTS $ | | 2,937,690 | 59,331,720 | 56,110,284 | 118,379,694 | 2,937,690 | 3,955,448 | 6,234,476 | 4,735,187 |
| WELLS | | | 18 | 5 | 23 | | | | |
| FOOTAGE | 20,000 & OVER | | 386,797 | 107,337 | 494,134 | + | 21,488 | 21,467 | 21,484 |
| COSTS $ | | | 107,620,724 | 28,746,768 | 136,367,492 | + | 5,978,929 | 5,749,353 | 5,929,021 |
| TOTAL WELLS | | 9,937 | 3,561 | 5,326 | 18,824 | | | | |
| TOTAL FOOTAGE | | 46,283,594 | 26,536,634 | 27,867,617 | 100,687,845 | 4,657 | 7,452 | 5,232 | 5,348 |
| TOTAL COSTS $ | | 2,574,027,433 | 2,732,692,451 | 1,781,025,346 | 7,087,745,230 | 259,034 | 767,394 | 334,402 | 376,527 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 36

## TEXAS RRC DIST. 1

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 222 | 2 | 38 | 262 | | | | |
| FOOTAGE | 0 - 1,249 | 187,954 | 1,209 | 30,402 | 219,565 | 846 | 604 | 800 | 838 |
| COSTS $ | | 5,830,675 | 37,172 | 1,013,222 | 6,881,069 | 26,264 | 18,586 | 26,663 | 26,263 |
| WELLS | | 341 | 19 | 52 | 412 | | | | |
| FOOTAGE | 1,250 - 2,499 | 602,361 | 33,260 | 92,314 | 727,935 | 1,766 | 1,750 | 1,775 | 1,766 |
| COSTS $ | | 18,650,086 | 1,300,317 | 2,622,510 | 22,572,913 | 54,692 | 68,437 | 50,432 | 54,788 |
| WELLS | | 155 | 21 | 58 | 234 | | | | |
| FOOTAGE | 2,500 - 3,749 | 449,061 | 65,700 | 183,079 | 697,840 | 2,897 | 3,128 | 3,156 | 2,982 |
| COSTS $ | | 16,118,079 | 3,239,321 | 5,145,376 | 24,502,776 | 103,987 | 154,253 | 88,713 | 104,712 |
| WELLS | | 35 | 11 | 38 | 84 | | | | |
| FOOTAGE | 3,750 - 4,999 | 150,552 | 46,416 | 165,634 | 362,602 | 4,301 | 4,219 | 4,358 | 4,316 |
| COSTS $ | | 6,340,955 | 2,506,549 | 4,872,113 | 13,719,617 | 181,170 | 227,868 | 128,213 | 163,328 |
| WELLS | | 177 | 30 | 52 | 259 | | | | |
| FOOTAGE | 5,000 - 7,499 | 1,148,230 | 165,386 | 318,384 | 1,632,000 | 6,487 | 5,512 | 6,122 | 6,301 |
| COSTS $ | | 60,208,738 | 8,567,888 | 9,807,849 | 78,584,475 | 340,162 | 285,596 | 188,612 | 303,414 |
| WELLS | | 72 | 10 | 17 | 99 | | | | |
| FOOTAGE | 7,500 - 9,999 | 599,537 | 83,151 | 138,622 | 821,310 | 8,326 | 8,315 | 8,154 | 8,296 |
| COSTS $ | | 50,858,506 | 5,779,373 | 5,990,924 | 62,628,803 | 706,368 | 577,937 | 352,407 | 632,614 |
| WELLS | | 8 | 12 | 4 | 24 | | | | |
| FOOTAGE | 10,000 - 12,499 | 84,922 | 127,875 | 46,643 | 259,440 | 10,615 | 10,656 | 11,660 | 10,810 |
| COSTS $ | | 9,101,577 | 13,414,206 | 3,034,564 | 25,550,347 | 1,137,697 | 1,117,850 | 758,641 | 1,064,597 |
| WELLS | | | 6 | | 6 | | | | |
| FOOTAGE | 12,500 - 14,999 | | 83,604 | | 83,604 | + | 13,934 | + | 13,934 |
| COSTS $ | | | 18,821,562 | | 18,821,562 | + | 3,136,927 | + | 3,136,927 |
| WELLS | | | | 3 | 3 | | | | |
| FOOTAGE | 15,000 - 17,499 | | | 48,363 | 48,363 | + | + | 16,121 | 16,121 |
| COSTS $ | | | | 13,215,023 | 13,215,023 | + | + | 4,405,007 | 4,405,007 |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 1,010 | 111 | 262 | 1,383 | | | | |
| TOTAL FOOTAGE | | 3,222,617 | 606,601 | 1,023,441 | 4,852,659 | 3,190 | 5,464 | 3,906 | 3,508 |
| TOTAL COSTS $ | | 167,108,616 | 53,666,388 | 45,701,581 | 266,476,585 | 165,454 | 483,480 | 174,433 | 192,680 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 37

## TEXAS RRC DIST. 2

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 1 | 5 | 18 | 24 | | | | |
| FOOTAGE | 0 - 1,249 | 1,100 | 5,206 | 18,715 | 25,021 | 1,100 | 1,041 | 1,039 | 1,042 |
| COSTS $ | | 55,000 | 433,094 | 964,179 | 1,452,273 | 55,000 | 86,618 | 53,565 | 60,511 |
| WELLS | | | 15 | 12 | 27 | | | | |
| FOOTAGE | 1,250 - 2,499 | | 29,486 | 24,330 | 53,816 | * | 1,965 | 2,027 | 1,993 |
| COSTS $ | | | 1,844,429 | 1,049,015 | 2,893,444 | * | 122,961 | 87,417 | 107,164 |
| WELLS | | 17 | 32 | 26 | 75 | | | | |
| FOOTAGE | 2,500 - 3,749 | 59,012 | 102,386 | 83,811 | 245,209 | 3,471 | 3,199 | 3,223 | 3,269 |
| COSTS $ | | 2,387,747 | 3,898,905 | 2,447,726 | 8,734,378 | 140,455 | 121,840 | 94,143 | 116,458 |
| WELLS | | 23 | 56 | 56 | 135 | | | | |
| FOOTAGE | 3,750 - 4,999 | 102,422 | 242,958 | 240,795 | 586,175 | 4,453 | 4,338 | 4,299 | 4,342 |
| COSTS $ | | 4,615,729 | 9,002,543 | 6,510,593 | 20,128,865 | 200,683 | 160,759 | 116,260 | 149,102 |
| WELLS | | 46 | 94 | 101 | 241 | | | | |
| FOOTAGE | 5,000 - 7,499 | 277,113 | 562,362 | 620,254 | 1,459,729 | 6,024 | 5,982 | 6,141 | 6,056 |
| COSTS $ | | 12,454,011 | 26,075,481 | 21,307,463 | 59,836,955 | 270,739 | 277,398 | 210,964 | 248,286 |
| WELLS | | 28 | 60 | 84 | 172 | | | | |
| FOOTAGE | 7,500 - 9,999 | 241,396 | 518,834 | 730,905 | 1,491,135 | 8,621 | 8,647 | 8,701 | 8,669 |
| COSTS $ | | 14,725,150 | 34,564,573 | 45,513,799 | 94,803,522 | 525,898 | 576,076 | 541,830 | 551,183 |
| WELLS | | 3 | 21 | 17 | 41 | | | | |
| FOOTAGE | 10,000 - 12,499 | [illegible],907 | 226,644 | 185,753 | 445,304 | 10,969 | 10,792 | 10,926 | 10,861 |
| COSTS $ | | 2,361,073 | 25,393,348 | 18,828,861 | 46,583,282 | 787,024 | 1,209,207 | 1,107,580 | 1,136,177 |
| WELLS | | 1 | 27 | 10 | 38 | | | | |
| FOOTAGE | 12,500 - 14,999 | 14,518 | 372,160 | 135,246 | 521,924 | 14,518 | 13,783 | 13,524 | 13,734 |
| COSTS $ | | 1,071,293 | 60,163,778 | 23,785,741 | 85,020,812 | 1,071,293 | 2,228,288 | 2,378,574 | 2,237,389 |
| WELLS | | | 4 | 4 | 8 | | | | |
| FOOTAGE | 15,000 - 17,499 | | 65,813 | 65,582 | 131,395 | * | 16,453 | 16,395 | 16,424 |
| COSTS $ | | | 16,826,928 | 14,516,698 | 31,343,626 | * | 4,206,732 | 3,629,224 | 3,917,978 |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| TOTAL WELLS | | 119 | 314 | 328 | 761 | | | | |
| TOTAL FOOTAGE | | 728,468 | 2,125,849 | 2,105,391 | 4,959,708 | 6,121 | 6,770 | 6,418 | 6,517 |
| TOTAL COSTS $ | | 37,670,003 | 178,203,079 | 134,924,275 | 350,797,357 | 316,554 | 567,525 | 411,354 | 460,968 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

TEXAS RRC DIST, 3

Table 38

| | DEPTH INTERVAL (FFET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | 0 - 1,249 | 33 | | 15 | 48 | 967 | + | 421 | 796 |
| FOOTAGE | | 31,919 | | 6,328 | 38,247 | 83,876 | + | 23,716 | 65,076 |
| COSTS $ | | 2,767,909 | | 355,745 | 3,123,654 | | | | |
| WELLS | 1,250 - 2,499 | 18 | 8 | 19 | 41 | 1,722 | 2,055 | 2,035 | 1,900 |
| FOOTAGE | | 31,004 | 8,221 | 38,675 | 77,900 | 129,057 | 125,079 | 86,564 | 108,977 |
| COSTS $ | | 2,323,030 | 500,318 | 1,644,720 | 4,468,068 | | | | |
| WELLS | 2,500 - 3,749 | 63 | 12 | 33 | 108 | 3,348 | 3,133 | 3,140 | 3,260 |
| FOOTAGE | | 210,946 | 37,602 | 103,620 | 352,168 | 205,111 | 159,046 | 114,194 | 172,212 |
| COSTS $ | | 12,922,013 | 1,908,555 | 3,768,409 | 18,598,977 | | | | |
| WELLS | 3,750 - 4,999 | 48 | 6 | 36 | 90 | 4,139 | 4,279 | 4,351 | 4,233 |
| FOOTAGE | | 198,712 | 25,675 | 156,660 | 381,047 | 263,702 | 158,939 | 187,633 | 226,290 |
| COSTS $ | | 12,657,707 | 953,635 | 6,754,820 | 20,366,162 | | | | |
| WELLS | 5,000 - 7,499 | 115 | 63 | 86 | 264 | 6,053 | 6,281 | 6,436 | 6,232 |
| FOOTAGE | | 696,171 | 395,726 | 553,579 | 1,645,476 | 423,058 | 280,894 | 318,589 | 355,101 |
| COSTS $ | | 48,651,741 | 17,696,339 | 27,398,732 | 93,746,812 | | | | |
| WELLS | 7,500 - 9,999 | 732 | 111 | 196 | 1,039 | 8,654 | 8,739 | 8,699 | 8,672 |
| FOOTAGE | | 6,335,434 | 970,113 | 1,705,017 | 9,010,564 | 646,471 | 607,368 | 480,401 | 610,966 |
| COSTS $ | | 473,217,356 | 67,417,869 | 94,158,714 | 634,793,939 | | | | |
| WELLS | 10,000 - 12,499 | 72 | 77 | 76 | 225 | 10,639 | 10,866 | 10,948 | 10,821 |
| FOOTAGE | | 766,036 | 836,758 | 832,067 | 2,434,861 | 898,752 | 1,091,105 | 864,218 | 952,914 |
| COSTS $ | | 64,710,155 | 84,015,102 | 65,680,602 | 214,405,859 | | | | |
| WELLS | 12,500 - 14,999 | 5 | 21 | 27 | 53 | 12,944 | 13,660 | 13,385 | 13,453 |
| FOOTAGE | | 64,720 | 286,879 | 361,417 | 713,016 | 1,040,870 | 2,616,558 | 1,673,986 | 1,987,730 |
| COSTS $ | | 5,204,350 | 54,947,727 | 45,197,623 | 105,349,700 | | | | |
| WELLS | 15,000 - 17,499 | | 14 | 11 | 25 | + | 15,982 | 16,122 | 16,044 |
| FOOTAGE | | | 223,757 | 177,344 | 401,101 | + | 4,420,505 | 3,397,167 | 3,813,436 |
| COSTS $ | | | 57,967,074 | 37,368,845 | 95,335,919 | | | | |
| WELLS | 17,500 - 19,999 | | 1 | 4 | 5 | + | 18,000 | 18,676 | 18,540 |
| FOOTAGE | | | 18,000 | 74,704 | 92,704 | + | 3,396,649 | 5,633,790 | 5,186,362 |
| COSTS $ | | | 3,396,649 | 22,535,162 | 25,931,811 | | | | |
| WELLS | 20,000 & OVER | | | 2 | 2 | + | + | 21,143 | 21,143 |
| FOOTAGE | | | | 42,286 | 42,286 | + | + | 6,976,948 | 6,976,948 |
| COSTS $ | | | | 13,953,896 | 13,953,896 | | | | |
| TOTAL WELLS | | 1,086 | 309 | 505 | 1,900 | 7,674 | 9,070 | 8,023 | 7,994 |
| TOTAL FOOTAGE | | 8,334,942 | 2,802,731 | 4,051,697 | 15,189,370 | 573,162 | 934,638 | 631,321 | 647,407 |
| TOTAL COSTS $ | | 622,454,261 | 288,803,268 | 318,817,268 | 1,230,074,797 | | | | |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 39

## TEXAS RRC DIST. 4

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | AVERAGE DEPTH AND COST PER WELL: OIL | GAS | DRY | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| WELLS | | 28 | 10 | 25 | 63 | | | | |
| FOOTAGE | 0 - 1,249 | 20,837 | 8,973 | 15,942 | 45,752 | 744 | 897 | 637 | 726 |
| COSTS $ | | 1,176,063 | 350,831 | 442,702 | 1,975,596 | 42,002 | 35,083 | 17,708 | 31,358 |
| WELLS | | 19 | 24 | 21 | 64 | | | | |
| FOOTAGE | 1,250 - 2,499 | 38,433 | 45,918 | 39,125 | 123,476 | 2,022 | 1,913 | 1,863 | 1,929 |
| COSTS $ | | 1,866,849 | 1,552,648 | 983,611 | 4,403,108 | 98,255 | 64,693 | 46,838 | 68,798 |
| WELLS | | 11 | 31 | 42 | 84 | | | | |
| FOOTAGE | 2,500 - 3,749 | 35,625 | 100,169 | 131,855 | 267,649 | 3,238 | 3,231 | 3,139 | 3,186 |
| COSTS $ | | 1,267,386 | 3,983,686 | 3,193,634 | 8,444,706 | 115,216 | 128,506 | 76,038 | 100,532 |
| WELLS | | 21 | 29 | 31 | 81 | | | | |
| FOOTAGE | 3,750 - 4,999 | 90,525 | 130,300 | 130,324 | 351,149 | 4,310 | 4,493 | 4,204 | 4,335 |
| COSTS $ | | 3,761,855 | 6,034,437 | 3,247,669 | 13,043,961 | 179,135 | 208,084 | 104,763 | 161,036 |
| WELLS | | 76 | 173 | 165 | 414 | | | | |
| FOOTAGE | 5,000 - 7,499 | 465,154 | 1,060,886 | 1,011,809 | 2,537,849 | 6,120 | 6,132 | 6,132 | 6,130 |
| COSTS $ | | 21,407,544 | 57,504,924 | 32,803,131 | 111,715,599 | 281,678 | 332,398 | 198,806 | 269,844 |
| WELLS | | 37 | 208 | 115 | 360 | | | | |
| FOOTAGE | 7,500 - 9,999 | 305,041 | 1,836,730 | 998,767 | 3,140,538 | 8,244 | 8,830 | 8,684 | 8,723 |
| COSTS $ | | 17,736,821 | 160,219,094 | 51,751,098 | 229,707,013 | 479,373 | 770,284 | 450,009 | 638,075 |
| WELLS | | 6 | 163 | 40 | 209 | | | | |
| FOOTAGE | 10,000 - 12,499 | 65,778 | 1,787,956 | 439,210 | 2,292,944 | 10,963 | 10,969 | 10,980 | 10,971 |
| COSTS $ | | 9,161,942 | 255,183,324 | 42,814,811 | 307,160,077 | 1,526,990 | 1,565,541 | 1,070,370 | 1,469,665 |
| WELLS | | 1 | 39 | 14 | 54 | | | | |
| FOOTAGE | 12,500 - 14,999 | 13,400 | 520,436 | 187,067 | 720,903 | 13,400 | 13,344 | 13,361 | 13,350 |
| COSTS $ | | 1,874,880 | 96,006,287 | 24,673,887 | 122,555,054 | 1,874,880 | 2,461,699 | 1,762,420 | 2,269,538 |
| WELLS | | | 11 | 2 | 13 | | | | |
| FOOTAGE | 15,000 - 17,499 | | 173,002 | 30,585 | 203,587 | * | 15,727 | 15,292 | 15,660 |
| COSTS $ | | | 44,822,201 | 3,086,353 | 47,908,554 | * | 4,074,745 | 1,543,176 | 3,685,273 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 17,500 - 19,999 | | | 17,500 | 17,500 | * | * | 17,500 | 17,500 |
| COSTS $ | | | | 3,536,334 | 3,536,334 | * | * | 3,536,334 | 3,536,334 |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| TOTAL WELLS | | 199 | 688 | 456 | 1,343 | | | | |
| TOTAL FOOTAGE | | 1,034,793 | 5,664,370 | 3,002,184 | 9,701,347 | 5,199 | 8,233 | 6,583 | 7,223 |
| TOTAL COSTS $ | | 58,253,340 | 625,663,432 | 166,533,230 | 850,450,002 | 292,730 | 909,394 | 365,204 | 633,246 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 40

TEXAS RRC DIST. 5

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 112 | 4 | 17 | 133 | | | | |
| FOOTAGE | 0 - 1,249 | 101,295 | 3,005 | 14,204 | 118,504 | 904 | 751 | 835 | 891 |
| COSTS $ | | 2,474,098 | 56,972 | 179,173 | 2,710,243 | 22,090 | 14,243 | 10,539 | 20,377 |
| WELLS | | 8 | | 10 | 18 | | | | |
| FOOTAGE | 1,250 - 2,499 | 15,116 | | 18,471 | 33,587 | 1,889 | * | 1,847 | 1,865 |
| COSTS $ | | 492,910 | | 381,294 | 874,204 | 61,613 | * | 38,129 | 48,566 |
| WELLS | | 5 | 1 | 13 | 19 | | | | |
| FOOTAGE | 2,500 - 3,749 | 15,410 | 3,100 | 40,093 | 58,603 | 3,082 | 3,100 | 3,084 | 3,084 |
| COSTS $ | | 886,002 | 106,576 | 1,046,797 | 2,039,375 | 177,200 | 106,576 | 80,522 | 107,335 |
| WELLS | | 6 | 1 | 11 | 18 | | | | |
| FOOTAGE | 3,750 - 4,999 | 25,352 | 4,880 | 47,568 | 77,800 | 4,225 | 4,880 | 4,324 | 4,322 |
| COSTS $ | | 1,092,086 | 230,127 | 1,721,523 | 3,043,736 | 182,014 | 230,127 | 156,502 | 169,096 |
| WELLS | | 11 | 5 | 13 | 29 | | | | |
| FOOTAGE | 5,000 - 7,499 | 74,414 | 31,680 | 79,296 | 185,390 | 6,764 | 6,336 | 6,099 | 6,392 |
| COSTS $ | | 4,824,413 | 1,480,270 | 3,248,543 | 9,553,226 | 438,583 | 296,054 | 249,887 | 329,421 |
| WELLS | | 21 | 9 | 22 | 52 | | | | |
| FOOTAGE | 7,500 - 9,999 | 194,959 | 78,371 | 194,228 | 467,558 | 9,283 | 8,707 | 8,828 | 8,991 |
| COSTS $ | | 21,757,795 | 6,114,385 | 12,044,828 | 39,917,008 | 1,036,085 | 679,376 | 547,492 | 767,634 |
| WELLS | | 17 | 45 | 16 | 78 | | | | |
| FOOTAGE | 10,000 - 12,499 | 173,829 | 510,437 | 176,406 | 860,672 | 10,225 | 11,343 | 11,025 | 11,034 |
| COSTS $ | | 18,651,103 | 63,182,027 | 15,630,608 | 97,463,738 | 1,097,123 | 1,404,045 | 976,913 | 1,249,535 |
| WELLS | | 1 | 17 | 9 | 27 | | | | |
| FOOTAGE | 12,500 - 14,999 | 14,031 | 229,014 | 121,286 | 364,331 | 14,031 | 13,471 | 13,476 | 13,493 |
| COSTS $ | | 1,366,564 | 34,249,818 | 14,496,683 | 50,113,065 | 1,366,564 | 2,014,695 | 1,610,742 | 1,856,039 |
| WELLS | | 2 | 4 | 2 | 8 | | | | |
| FOOTAGE | 15,000 - 17,499 | 32,200 | 62,958 | 30,705 | 125,863 | 16,100 | 15,739 | 15,352 | 15,732 |
| COSTS $ | | 6,696,302 | 12,610,278 | 4,511,779 | 23,818,359 | 3,348,151 | 3,152,569 | 2,255,889 | 2,977,294 |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| TOTAL WELLS | | 183 | 86 | 113 | 382 | | | | |
| TOTAL FOOTAGE | | 646,606 | 923,445 | 722,257 | 2,292,308 | 3,533 | 10,737 | 6,391 | 6,000 |
| TOTAL COSTS $ | | 58,241,273 | 118,030,453 | 53,261,228 | 229,532,954 | 318,258 | 1,372,447 | 471,338 | 600,871 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 41

## TEXAS RRC DIST. 6

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 26 | | 2 | 28 | | | | |
| FOOTAGE | 0 - 1,249 | 13,780 | | 1,340 | 15,120 | 530 | + | 670 | 540 |
| COSTS $ | | 1,103,145 | | 50,153 | 1,153,298 | 42,428 | + | 25,076 | 41,189 |
| WELLS | | 4 | 4 | 15 | 23 | | | | |
| FOOTAGE | 1,250 - 2,499 | 8,250 | 8,727 | 30,597 | 47,574 | 2,062 | 2,181 | 2,039 | 2,068 |
| COSTS $ | | 348,926 | 325,825 | 972,286 | 1,647,037 | 87,231 | 81,456 | 64,819 | 71,610 |
| WELLS | | 7 | 6 | 3 | 16 | | | | |
| FOOTAGE | 2,500 - 3,749 | 21,239 | 15,712 | 8,627 | 45,578 | 3,034 | 2,618 | 2,875 | 2,848 |
| COSTS $ | | 930,698 | 571,880 | 292,491 | 1,795,069 | 132,956 | 95,313 | 97,497 | 112,191 |
| WELLS | | 78 | 2 | 15 | 95 | | | | |
| FOOTAGE | 3,750 - 4,999 | 352,132 | 9,300 | 66,607 | 428,039 | 4,514 | 4,650 | 4,440 | 4,505 |
| COSTS $ | | 14,706,651 | 380,533 | 1,852,692 | 16,939,876 | 188,546 | 190,266 | 123,512 | 178,314 |
| WELLS | | 52 | 33 | 35 | 120 | | | | |
| FOOTAGE | 5,000 - 7,499 | 310,359 | 227,192 | 217,302 | 754,853 | 5,968 | 6,884 | 6,208 | 6,290 |
| COSTS $ | | 15,813,405 | 15,986,135 | 8,530,134 | 40,329,674 | 304,103 | 484,428 | 243,718 | 336,080 |
| WELLS | | 50 | 125 | 55 | 230 | | | | |
| FOOTAGE | 7,500 - 9,999 | 408,646 | 1,159,170 | 465,324 | 2,033,140 | 8,172 | 9,273 | 8,460 | 8,839 |
| COSTS $ | | 25,457,279 | 119,381,409 | 25,743,248 | 170,581,936 | 509,145 | 955,051 | 468,059 | 741,660 |
| WELLS | | 13 | 153 | 35 | 201 | | | | |
| FOOTAGE | 10,000 - 12,499 | 142,305 | 1,652,295 | 391,163 | 2,185,764 | 10,946 | 10,799 | 11,176 | 10,874 |
| COSTS $ | | 10,326,389 | 175,687,375 | 36,755,295 | 222,769,059 | 794,337 | 1,148,283 | 1,050,151 | 1,108,303 |
| WELLS | | 1 | 5 | 8 | 14 | | | | |
| FOOTAGE | 12,500 - 14,999 | 13,700 | 66,427 | 110,680 | 190,807 | 13,700 | 13,285 | 13,835 | 13,629 |
| COSTS $ | | 1,386,511 | 7,239,868 | 14,189,752 | 22,816,131 | 1,386,511 | 1,447,973 | 1,773,719 | 1,629,723 |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 17,500 - 19,999 | | | 19,800 | 19,800 | + | + | 19,800 | 19,800 |
| COSTS $ | | | | 6,732,259 | 6,732,259 | + | + | 6,732,259 | 6,732,259 |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 231 | 328 | 169 | 728 | | | | |
| TOTAL FOOTAGE | | 1,270,411 | 3,138,823 | 1,311,440 | 5,720,675 | 5,499 | 9,569 | 7,760 | 7,858 |
| TOTAL COSTS $ | | 70,073,004 | 319,573,025 | 95,118,310 | 484,764,339 | 303,346 | 974,308 | 562,830 | 665,885 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 42

TEXAS RRC DIST. 7B

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 178 | 21 | 264 | 463 | | | | |
| FOOTAGE | 0 - 1,249 | 120,415 | 18,759 | 183,128 | 322,302 | 676 | 893 | 693 | 696 |
| COSTS $ | | 4,532,983 | 480,263 | 2,946,334 | 7,959,580 | 25,466 | 22,869 | 11,160 | 17,191 |
| WELLS | | 240 | 01 | 271 | 572 | | | | |
| FOOTAGE | 1,250 - 2,499 | 442,835 | 111,946 | 508,531 | 1,063,312 | 1,845 | 1,835 | 1,876 | 1,858 |
| COSTS $ | | 15,122,142 | 3,668,42[illegible] | 9,741,840 | 28,532,402 | 63,008 | 60,138 | 35,947 | 49,881 |
| WELLS | | 309 | 99 | 252 | 660 | | | | |
| FOOTAGE | 2,500 - 3,749 | 985,205 | 313,643 | 796,370 | 2,095,218 | 3,188 | 3,168 | 3,160 | 3,174 |
| COSTS $ | | 39,109,410 | 12,193,914 | 16,856,158 | 68,159,482 | 126,567 | 123,170 | 66,889 | 103,271 |
| WELLS | | 327 | 202 | 313 | 842 | | | | |
| FOOTAGE | 3,750 - 4,999 | 1,439,560 | 882,121 | 1,371,664 | 3,693,345 | 4,402 | 4,366 | 4,382 | 4,386 |
| COSTS $ | | 54,656,262 | 36,321,443 | 34,286,679 | 125,264,384 | 167,144 | 179,809 | 109,542 | 148,770 |
| WELLS | | 157 | 89 | 189 | 435 | | | | |
| FOOTAGE | 5,000 - 7,499 | 917,026 | 505,703 | 1,078,114 | 2,500,843 | 5,840 | 5,682 | 5,704 | 5,749 |
| COSTS $ | | 39,271,060 | 23,281,705 | 35,034,876 | 97,587,641 | 250,134 | 261,592 | 185,369 | 224,339 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 7,500 - 9,999 | | | 9,600 | 9,600 | + | + | 9,600 | 9,600 |
| COSTS $ | | | | 627,589 | 627,589 | + | + | 627,589 | 627,589 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 10,000 - 12,499 | | | 10,660 | 10,660 | + | + | 10,660 | 10,660 |
| COSTS $ | | | | 2,702,100 | 2,702,100 | + | + | 2,702,100 | 2,702,100 |
| WELLS | | | | | | | | | |
| FOOTAGE | 12,500 - 14,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 1,211 | 472 | 1,291 | 2,974 | | | | |
| TOTAL FOOTAGE | | 3,905,041 | 1,832,172 | 3,958,067 | 9,695,280 | 3,224 | 3,881 | 3,065 | 3,260 |
| TOTAL COSTS $ | | 152,691,857 | 75,945,745 | 102,195,576 | 330,833,178 | 126,087 | 160,902 | 79,.60 | 111,241 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 43

## TEXAS RRC DIST. 7C

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 13 | 7 | 28 | 48 | | | | |
| FOOTAGE | 0 - 1,249 | 13,677 | 6,647 | 21,557 | 41,881 | 1,052 | 949 | 769 | 872 |
| COSTS $ | | 896,935 | 480,067 | 1,483,279 | 2,860,281 | 68,995 | 68,581 | 52,974 | 59,589 |
| WELLS | | 80 | 21 | 56 | 157 | | | | |
| FOOTAGE | 1,250 - 2,499 | 159,794 | 38,356 | 103,846 | 301,996 | 1,997 | 1,826 | 1,854 | 1,923 |
| COSTS $ | | 8,277,348 | 1,870,968 | 5,584,657 | 15,732,973 | 103,466 | 89,093 | 99,726 | 100,210 |
| WELLS | | 168 | 10 | 37 | 215 | | | | |
| FOOTAGE | 2,500 - 3,749 | 473,049 | 31,242 | 117,272 | 621,563 | 2,815 | 3,124 | 3,169 | 2,890 |
| COSTS $ | | 20,782,492 | 1,351,303 | 4,287,033 | 26,420,828 | 123,705 | 135,130 | 115,865 | 122,887 |
| WELLS | | 116 | 24 | 122 | 262 | | | | |
| FOOTAGE | 3,750 - 4,999 | 494,500 | 105,006 | 537,625 | 1,137,131 | 4,262 | 4,375 | 4,406 | 4,340 |
| COSTS $ | | 22,755,057 | 4,157,636 | 17,230,008 | 44,142,701 | 196,164 | 173,234 | 141,229 | 168,483 |
| WELLS | | 219 | 202 | 140 | 561 | | | | |
| FOOTAGE | 5,000 - 7,499 | 1,411,682 | 1,290,045 | 857,734 | 3,559,461 | 6,446 | 6,386 | 6,126 | 6,344 |
| COSTS $ | | 67,807,332 | 50,910,092 | 27,731,134 | 146,448,558 | 309,622 | 252,030 | 198,079 | 261,049 |
| WELLS | | 231 | 157 | 40 | 428 | | | | |
| FOOTAGE | 7,500 - 9,999 | 1,927,723 | 1,312,261 | 341,538 | 3,581,522 | 8,345 | 8,358 | 8,538 | 8,368 |
| COSTS $ | | 103,466,942 | 54,175,279 | 11,867,917 | 169,510,138 | 447,908 | 345,065 | 296,697 | 396,051 |
| WELLS | | 18 | 7 | 5 | 30 | | | | |
| FOOTAGE | 10,000 - 12,499 | 197,479 | 77,227 | 53,897 | 328,603 | 10,971 | 11,032 | 10,779 | 10,953 |
| COSTS $ | | 12,135,940 | 6,025,841 | 3,453,534 | 21,615,315 | 674,218 | 860,834 | 690,706 | 720,510 |
| WELLS | | 1 | 3 | 2 | 6 | | | | |
| FOOTAGE | 12,500 - 14,999 | 13,400 | 42,258 | 28,400 | 84,058 | 13,400 | 14,086 | 14,200 | 14,009 |
| COSTS $ | | 1,285,110 | 5,418,595 | 4,248,767 | 10,952,472 | 1,285,110 | 1,806,198 | 2,124,383 | 1,825,412 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 15,000 - 17,499 | | | 15,846 | 15,846 | + | + | 15,846 | 15,846 |
| COSTS $ | | | | 2,339,621 | 2,339,621 | + | + | 2,339,621 | 2,339,621 |
| WELLS | | | 1 | | 1 | | | | |
| FOOTAGE | 17,500 - 19,999 | | 17,968 | | 17,968 | + | 17,968 | + | 17,968 |
| COSTS $ | | | 4,334,471 | | 4,334,471 | + | 4,334,471 | + | 4,334,471 |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 846 | 432 | 431 | 1,709 | | | | |
| TOTAL FOOTAGE | | 4,691,304 | 2,921,010 | 2,077,715 | 9,690,029 | 5,545 | 6,761 | 4,820 | 5,669 |
| TOTAL COSTS $ | | 237,407,156 | 128,724,252 | 78,225,950 | 444,357,358 | 280,623 | 297,972 | 181,498 | 260,010 |

Table 44

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

TEXAS RRC DIST. 8

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 22 | 1 | 14 | 37 | | | | |
| FOOTAGE | 0 - 1,249 | 13,726 | 390 | 11,111 | 25,227 | 623 | 390 | 793 | 681 |
| COSTS $ | | 1,190,259 | 32,545 | 787,254 | 2,010,058 | 54,102 | 32,545 | 56,232 | 54,325 |
| WELLS | | 138 | 4 | 13 | 155 | | | | |
| FOOTAGE | 1,250 - 2,499 | 250,573 | 7,314 | 22,199 | 280,086 | 1,815 | 1,828 | 1,707 | 1,807 |
| COSTS $ | | 16,644,525 | 427,676 | 1,501,487 | 18,573,688 | 120,612 | 106,919 | 115,499 | 119,830 |
| WELLS | | 440 | 37 | 23 | 500 | | | | |
| FOOTAGE | 2,500 - 3,749 | 1,399,507 | 115,944 | 72,496 | 1,587,947 | 3,180 | 3,133 | 3,152 | 3,175 |
| COSTS $ | | 68,893,476 | 5,905,283 | 3,510,377 | 78,309,130 | 156,576 | 159,602 | 152,625 | 156,618 |
| WELLS | | 362 | 10 | 28 | 400 | | | | |
| FOOTAGE | 3,750 - 4,999 | 1,637,651 | 43,865 | 121,114 | 1,802,630 | 4,523 | 4,386 | 4,325 | 4,506 |
| COSTS $ | | 74,338,691 | 2,929,669 | 6,078,614 | 83,346,974 | 205,355 | 292,966 | 217,093 | 208,367 |
| WELLS | | 299 | 25 | 59 | 383 | | | | |
| FOOTAGE | 5,000 - 7,499 | 1,918,939 | 158,131 | 362,261 | 2,439,331 | 6,417 | 6,325 | 6,140 | 6,369 |
| COSTS $ | | 92,173,040 | 8,769,692 | 19,455,814 | 120,398,546 | 308,271 | 350,787 | 329,759 | 314,356 |
| WELLS | | 341 | 13 | 50 | 404 | | | | |
| FOOTAGE | 7,500 - 9,999 | 3,037,574 | 109,040 | 441,007 | 3,587,621 | 8,907 | 8,387 | 8,820 | 8,880 |
| COSTS $ | | 163,076,913 | 6,503,692 | 24,397,185 | 193,977,790 | 478,231 | 500,284 | 487,943 | 480,143 |
| WELLS | | 50 | 6 | 26 | 82 | | | | |
| FOOTAGE | 10,000 - 12,499 | 556,797 | 71,072 | 290,272 | 918,141 | 11,135 | 11,845 | 11,164 | 11,196 |
| COSTS $ | | 46,038,217 | 8,534,520 | 19,166,145 | 73,738,882 | 920,764 | 1,422,420 | 737,159 | 899,254 |
| WELLS | | 8 | 4 | 7 | 19 | | | | |
| FOOTAGE | 12,500 - 14,999 | 103,785 | 53,275 | 92,768 | 249,828 | 12,973 | 13,318 | 13,252 | 13,148 |
| COSTS $ | | 12,524,777 | 6,008,065 | 7,040,930 | 25,573,772 | 1,565,597 | 1,502,016 | 1,005,847 | 1,345,988 |
| WELLS | | | 11 | 4 | 15 | | | | |
| FOOTAGE | 15,000 - 17,499 | | 182,556 | 65,422 | 247,978 | * | 16,596 | 16,355 | 16,531 |
| COSTS $ | | | 39,456,767 | 10,431,929 | 49,888,696 | * | 3,586,978 | 2,607,982 | 3,325,913 |
| WELLS | | 1 | 8 | 2 | 11 | | | | |
| FOOTAGE | 17,500 - 19,999 | 18,570 | 148,865 | 37,347 | 204,782 | 18,570 | 18,608 | 18,673 | 18,616 |
| COSTS $ | | 2,937,690 | 34,595,060 | 8,324,438 | 45,857,188 | 2,937,690 | 4,324,382 | 4,162,219 | 4,168,835 |
| WELLS | | | 15 | 2 | 17 | | | | |
| FOOTAGE | 20,000 & OVER | | 325,168 | 44,570 | 369,738 | * | 21,677 | 22,285 | 21,749 |
| COSTS $ | | | 90,059,125 | 10,521,497 | 100,580,622 | * | 6,003,941 | 5,260,748 | 5,916,507 |
| TOTAL WELLS | | 1,661 | 134 | 228 | 2,023 | | | | |
| TOTAL FOOTAGE | | 8,937,122 | 1,215,620 | 1,560,567 | 11,713,309 | 5,380 | 9,071 | 6,844 | 5,790 |
| TOTAL COSTS $ | | 477,817,582 | 203,222,094 | 111,215,670 | 792,255,346 | 287,668 | 1,516,582 | 487,788 | 391,623 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 45

## TEXAS RRC DIST, 8A

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| | | | | | | | | | |
| WELLS | | | | 2 | 2 | | | | |
| FOOTAGE | 0 - 1,249 | | | 1,174 | 1,174 | + | + | 587 | 587 |
| COSTS $ | | | | 30,135 | 30,135 | + | + | 15,067 | 15,067 |
| WELLS | | 101 | | 6 | 107 | | | | |
| FOOTAGE | 1,250 - 2,499 | 188,354 | | 10,126 | 198,480 | 1,864 | + | 1,687 | 1,854 |
| COSTS $ | | 8,075,606 | | 317,847 | 8,393,453 | 79,956 | + | 52,974 | 78,443 |
| WELLS | | 189 | 1 | 27 | 217 | | | | |
| FOOTAGE | 2,500 - 3,749 | 590,088 | 3,130 | 85,344 | 678,562 | 3,122 | 3,130 | 3,160 | 3,127 |
| COSTS $ | | 24,353,021 | 237,880 | 2,860,480 | 27,451,381 | 128,851 | 237,880 | 105,943 | 126,504 |
| WELLS | | 258 | | 36 | 294 | | | | |
| FOOTAGE | 3,750 - 4,999 | 1,189,631 | | 162,267 | 1,351,898 | 4,610 | + | 4,507 | 4,598 |
| COSTS $ | | 49,155,785 | | 6,036,556 | 55,192,341 | 190,526 | + | 167,682 | 187,729 |
| WELLS | | 417 | 12 | 97 | 526 | | | | |
| FOOTAGE | 5,000 - 7,499 | 2,433,632 | 71,206 | 598,475 | 3,103,313 | 5,836 | 5,933 | 6,169 | 5,899 |
| COSTS $ | | 107,940,951 | 3,050,753 | 23,195,439 | 134,187,143 | 258,851 | 254,229 | 239,128 | 255,108 |
| WELLS | | 99 | | 100 | 199 | | | | |
| FOOTAGE | 7,500 - 9,999 | 847,162 | | 838,938 | 1,686,100 | 8,557 | + | 8,389 | 8,472 |
| COSTS $ | | 48,689,753 | | 34,294,537 | 82,984,290 | 491,815 | + | 342,945 | 417,006 |
| WELLS | | 41 | | 66 | 107 | | | | |
| FOOTAGE | 10,000 - 12,499 | 461,311 | | 735,224 | 1,196,535 | 11,251 | + | 11,139 | 11,182 |
| COSTS $ | | 29,990,516 | | 31,143,675 | 61,134,191 | 731,476 | + | 471,873 | 571,347 |
| WELLS | | 11 | | 10 | 21 | | | | |
| FOOTAGE | 12,500 - 14,999 | 143,946 | | 129,158 | 273,104 | 13,086 | + | 12,915 | 13,004 |
| COSTS $ | | 10,774,095 | | 5,969,810 | 16,743,905 | 979,463 | + | 596,981 | 797,328 |
| WELLS | | | | | | | | | |
| FOOTAGE | 15,000 - 17,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 1,116 | 13 | 344 | 1,473 | | | | |
| TOTAL FOOTAGE | | 5,854,124 | 74,336 | 2,560,706 | 8,489,166 | 5,245 | 5,718 | 7,443 | 5,763 |
| TOTAL COSTS $ | | 278,979,727 | 3,288,633 | 103,848,479 | 386,116,839 | 249,981 | 252,971 | 301,885 | 262,129 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 46

TEXAS RRC DIST. 9

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 486 | 1 | 207 | 694 | | | | |
| FOOTAGE | 0 - 1,249 | 385,484 | 423 | 169,899 | 555,806 | 793 | 423 | 820 | 800 |
| COSTS $ | | 6,392,757 | 6,460 | 1,602,696 | 8,003,913 | 13,153 | 6,460 | 7,742 | 11,533 |
| WELLS | | 561 | 1 | 258 | 820 | | | | |
| FOOTAGE | 1,250 - 2,499 | 958,599 | 1,918 | 451,331 | 1,411,848 | 1,708 | 1,918 | 1,749 | 1,721 |
| COSTS $ | | 24,940,381 | 47,202 | 6,344,436 | 31,332,019 | 44,457 | 47,202 | 24,590 | 38,209 |
| WELLS | | 88 | 2 | 81 | 171 | | | | |
| FOOTAGE | 2,500 - 3,749 | 271,696 | 6,258 | 242,002 | 519,956 | 3,087 | 3,129 | 2,987 | 3,040 |
| COSTS $ | | 9,019,514 | 272,164 | 4,593,732 | 13,885,410 | 102,494 | 136,082 | 56,712 | 81,201 |
| WELLS | | 215 | 34 | 118 | 367 | | | | |
| FOOTAGE | 3,750 - 4,999 | 965,047 | 152,901 | 522,617 | 1,640,565 | 4,488 | 4,497 | 4,428 | 4,470 |
| COSTS $ | | 38,150,477 | 5,458,868 | 11,034,831 | 54,644,176 | 177,444 | 160,554 | 93,515 | 148,894 |
| WELLS | | 421 | 192 | 231 | 844 | | | | |
| FOOTAGE | 5,000 - 7,499 | 2,524,493 | 1,184,347 | 1,388,660 | 5,097,500 | 5,996 | 6,168 | 6,011 | 6,039 |
| COSTS $ | | 113,859,266 | 54,178,302 | 38,396,436 | 206,434,004 | 270,449 | 282,178 | 166,218 | 244,590 |
| WELLS | | 31 | 5 | 39 | 75 | | | | |
| FOOTAGE | 7,500 - 9,999 | 254,681 | 41,639 | 335,806 | 632,126 | 8,215 | 8,327 | 8,610 | 8,428 |
| COSTS $ | | 15,867,721 | 2,403,286 | 12,870,901 | 31,141,908 | 511,861 | 480,657 | 330,023 | 415,225 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 10,000 - 12,499 | | | 10,837 | 10,837 | * | * | 10,837 | 10,837 |
| COSTS $ | | | | 595,793 | 595,793 | * | * | 595,793 | 595,793 |
| WELLS | | | | | | | | | |
| FOOTAGE | 12,500 - 14,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | 1 | 2 | | 3 | | | | |
| FOOTAGE | 15,000 - 17,499 | 15,118 | 34,025 | | 49,143 | 15,118 | 17,012 | * | 16,381 |
| COSTS $ | | 1,538,328 | 5,311,179 | | 6,849,507 | 1,538,328 | 2,655,589 | * | 2,283,169 |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| TOTAL WELLS | | 1,803 | 237 | 935 | 2,975 | | | | |
| TOTAL FOOTAGE | | 5,375,118 | 1,421,511 | 3,121,152 | 9,917,781 | 2,981 | 5,997 | 3,338 | 3,333 |
| TOTAL COSTS $ | | 209,768,444 | 67,679,461 | 75,438,825 | 352,886,730 | 116,344 | 285,567 | 80,683 | 118,617 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 47

## TEXAS RRC DIST, 10

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| 0 - 1,249 | WELLS | | | | | * | * | * | * |
| | FOOTAGE | | | | | * | * | * | * |
| | COSTS $ | | | | | | | | |
| 1,250 - 2,499 | WELLS | 72 | 35 | 5 | 112 | | | | |
| | FOOTAGE | 161,778 | 75,676 | 10,855 | 248,309 | 2,246 | 2,162 | 2,171 | 2,217 |
| | COSTS $ | 6,261,054 | 2,915,226 | 696,383 | 9,872,663 | 86,959 | 83,292 | 139,276 | 88,148 |
| 2,500 - 3,749 | WELLS | 247 | 27 | 11 | 285 | | | | |
| | FOOTAGE | 791,541 | 87,987 | 35,178 | 914,706 | 3,204 | 3,258 | 3,198 | 3,209 |
| | COSTS $ | 34,502,783 | 4,369,099 | 1,817,133 | 40,689,015 | 139,687 | 161,818 | 165,193 | 142,768 |
| 3,750 - 4,999 | WELLS | 3 | 2 | 3 | 8 | | | | |
| | FOOTAGE | 11,740 | 8,673 | 12,973 | 33,386 | 3,913 | 4,336 | 4,324 | 4,173 |
| | COSTS $ | 574,220 | 413,166 | 621,962 | 1,609,348 | 191,406 | 206,583 | 207,320 | 201,168 |
| 5,000 - 7,499 | WELLS | 38 | 33 | 29 | 100 | | | | |
| | FOOTAGE | 261,167 | 236,261 | 194,165 | 691,593 | 6,872 | 7,159 | 6,695 | 6,915 |
| | COSTS $ | 14,031,040 | 12,573,086 | 9,552,400 | 36,156,526 | 369,237 | 381,002 | 329,393 | 361,565 |
| 7,500 - 9,999 | WELLS | 57 | 98 | 50 | 205 | | | | |
| | FOOTAGE | 491,674 | 822,278 | 425,855 | 1,739,807 | 8,625 | 8,390 | 8,517 | 8,486 |
| | COSTS $ | 31,225,765 | 46,671,664 | 18,037,102 | 95,934,531 | 547,820 | 476,241 | 360,742 | 467,973 |
| 10,000 - 12,499 | WELLS | 23 | 62 | 19 | 104 | | | | |
| | FOOTAGE | 251,093 | 678,582 | 207,786 | 1,137,461 | 10,917 | 10,944 | 10,936 | 10,937 |
| | COSTS $ | 20,041,250 | 52,811,961 | 12,340,558 | 85,193,769 | 871,358 | 851,805 | 649,503 | 819,170 |
| 12,500 - 14,999 | WELLS | 1 | 17 | 2 | 20 | | | | |
| | FOOTAGE | 14,250 | 235,753 | 27,821 | 277,824 | 14,250 | 13,867 | 13,910 | 13,891 |
| | COSTS $ | 1,101,402 | 24,687,163 | 3,307,148 | 29,095,713 | 1,101,402 | 1,452,186 | 1,653,574 | 1,454,785 |
| 15,000 - 17,499 | WELLS | 1 | 12 | 5 | 18 | | | | |
| | FOOTAGE | 15,800 | 188,257 | 81,321 | 285,378 | 15,800 | 15,688 | 16,264 | 15,854 |
| | COSTS $ | 1,203,910 | 26,939,196 | 9,449,415 | 37,592,521 | 1,203,910 | 2,244,933 | 1,889,883 | 2,088,473 |
| 17,500 - 19,999 | WELLS | | 5 | | 5 | | | | |
| | FOOTAGE | | 91,752 | | 91,752 | * | 18,350 | * | 18,350 |
| | COSTS $ | | 17,005,540 | | 17,005,540 | * | 3,401,108 | * | 3,401,108 |
| 20,000 & OVER | WELLS | | 3 | 1 | 4 | | | | |
| | FOOTAGE | | 61,629 | 20,481 | 82,110 | * | 20,543 | 20,481 | 20,527 |
| | COSTS $ | | 17,561,599 | 4,271,375 | 21,832,974 | * | 5,853,866 | 4,271,375 | 5,458,243 |
| TOTAL WELLS | | 442 | 294 | 125 | 861 | | | | |
| TOTAL FOOTAGE | | 1,999,043 | 2,486,848 | 1,016,435 | 5,502,326 | 4,522 | 8,458 | 8,131 | 6,390 |
| TOTAL COSTS $ | | 108,941,424 | 205,947,700 | 60,093,476 | 374,982,600 | 246,473 | 700,502 | 480,747 | 435,519 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 48

TEXAS - OFFSHORE

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | | | 2 | 2 | | | | |
| FOOTAGE | 0 - 1,249 | | | 2,210 | 2,210 | + | + | 1,105 | 1,105 |
| COSTS $ | | | | 835,399 | 835,399 | + | + | 417,699 | 417,699 |
| WELLS | | | 1 | 1 | 2 | | | | |
| FOOTAGE | 1,250 - 2,499 | | 2,265 | 2,377 | 4,642 | + | 2,265 | 2,377 | 2,321 |
| COSTS $ | | | 982,746 | 1,031,428 | 2,014,174 | + | 982,746 | 1,031,428 | 1,007,087 |
| WELLS | | | 1 | 3 | 4 | | | | |
| FOOTAGE | 2,500 - 3,749 | | 3,005 | 8,870 | 11,875 | + | 3,005 | 2,956 | 2,968 |
| COSTS $ | | | 660,820 | 3,402,987 | 4,063,807 | + | 660,820 | 1,134,329 | 1,015,951 |
| WELLS | | | 7 | 4 | 11 | | | | |
| FOOTAGE | 3,750 - 4,999 | | 29,029 | 16,669 | 45,698 | + | 4,147 | 4,167 | 4,154 |
| COSTS $ | | | 18,158,797 | 6,338,757 | 24,497,554 | + | 2,594,113 | 1,584,689 | 2,227,050 |
| WELLS | | 3 | 29 | 28 | 60 | | | | |
| FOOTAGE | 5,000 - 7,499 | 18,847 | 180,058 | 183,843 | 382,748 | 6,282 | 6,208 | 6,565 | 6,379 |
| COSTS $ | | 10,584,166 | 64,372,476 | 41,395,264 | 116,351,906 | 3,528,055 | 2,219,740 | 1,478,402 | 1,939,198 |
| WELLS | | 17 | 42 | 33 | 92 | | | | |
| FOOTAGE | 7,500 - 9,999 | 151,362 | 370,696 | 291,404 | 813,462 | 8,903 | 8,826 | 8,830 | 8,841 |
| COSTS $ | | 43,853,552 | 125,587,324 | 62,672,239 | 232,113,115 | 2,579,620 | 2,990,174 | 1,899,158 | 2,522,968 |
| WELLS | | 8 | 47 | 38 | 93 | | | | |
| FOOTAGE | 10,000 - 12,499 | 87,946 | 522,530 | 423,799 | 1,034,275 | 10,993 | 11,117 | 11,152 | 11,121 |
| COSTS $ | | 29,411,013 | 164,301,614 | 113,398,879 | 307,111,506 | 3,676,376 | 3,495,779 | 2,984,181 | 3,302,274 |
| WELLS | | 2 | 15 | 22 | 39 | | | | |
| FOOTAGE | 12,500 - 14,999 | 25,850 | 200,209 | 297,960 | 524,019 | 12,925 | 13,347 | 13,543 | 13,436 |
| COSTS $ | | 10,772,015 | 80,031,934 | 134,731,057 | 225,535,006 | 5,386,007 | 5,335,462 | 6,124,138 | 5,782,948 |
| WELLS | | | 1 | 7 | 8 | | | | |
| FOOTAGE | 15,000 - 17,499 | | 15,525 | 110,603 | 126,128 | + | 15,525 | 15,800 | 15,766 |
| COSTS $ | | | 9,849,210 | 56,863,377 | 66,712,587 | + | 9,849,210 | 8,123,339 | 8,339,073 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 17,500 - 19,999 | | | 18,830 | 18,830 | + | + | 18,830 | 18,830 |
| COSTS $ | | | | 14,982,091 | 14,982,091 | + | + | 14,982,091 | 14,982,091 |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| TOTAL WELLS | | 30 | 143 | 139 | 312 | | | | |
| TOTAL FOOTAGE | | 284,005 | 1,323,317 | 1,356,565 | 2,963,887 | 9,466 | 9,253 | 9,759 | 9,499 |
| TOTAL COSTS $ | | 94,620,746 | 463,944,921 | 435,651,478 | 994,217,145 | 3,154,024 | 3,244,370 | 3,134,183 | 3,186,593 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 49

UTAH

| DEPTH INTERVAL (FEET) | | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 6 | 1 | 12 | 19 | | | | |
| FOOTAGE | 0 - 1,249 | 2,160 | 1,100 | 11,247 | 14,507 | 360 | 1,100 | 937 | 763 |
| COSTS $ | | 160,296 | 79,584 | 4,602,124 | 4,842,004 | 26,716 | 79,584 | 383,510 | 254,842 |
| WELLS | | 3 | 3 | 20 | 26 | | | | |
| FOOTAGE | 1,250 - 2,499 | 6,983 | 5,815 | 39,809 | 52,607 | 2,327 | 1,938 | 1,990 | 2,023 |
| COSTS $ | | 354,378 | 379,137 | 8,692,861 | 9,426,376 | 118,126 | 126,379 | 434,643 | 362,552 |
| WELLS | | 8 | 7 | 21 | 36 | | | | |
| FOOTAGE | 2,500 - 3,749 | 23,393 | 19,947 | 61,444 | 104,784 | 2,924 | 2,849 | 2,925 | 2,910 |
| COSTS $ | | 1,073,892 | 1,701,470 | 8,800,214 | 11,575,576 | 134,236 | 243,067 | 419,057 | 321,543 |
| WELLS | | 1 | 9 | 9 | 19 | | | | |
| FOOTAGE | 3,750 - 4,999 | 4,410 | 41,069 | 40,847 | 86,326 | 4,410 | 4,563 | 4,538 | 4,543 |
| COSTS $ | | 416,788 | 3,456,148 | 5,450,866 | 9,323,802 | 416,788 | 384,016 | 605,651 | 490,726 |
| WELLS | | 35 | 50 | 27 | 112 | | | | |
| FOOTAGE | 5,000 - 7,499 | 197,569 | 333,444 | 164,675 | 695,688 | 5,644 | 6,668 | 6,099 | 6,211 |
| COSTS $ | | 19,356,073 | 30,625,206 | 15,604,137 | 65,585,416 | 553,030 | 612,504 | 577,931 | 585,584 |
| WELLS | | 2 | 20 | 15 | 37 | | | | |
| FOOTAGE | 7,500 - 9,999 | 16,999 | 171,181 | 129,598 | 317,778 | 8,499 | 8,559 | 8,639 | 8,588 |
| COSTS $ | | 2,460,350 | 22,350,731 | 22,774,595 | 47,585,676 | 1,230,175 | 1,117,536 | 1,518,306 | 1,286,099 |
| WELLS | | 4 | 2 | 5 | 11 | | | | |
| FOOTAGE | 10,000 - 12,499 | 43,660 | 20,228 | 59,148 | 123,036 | 10,915 | 10,114 | 11,829 | 11,185 |
| COSTS $ | | 7,667,357 | 3,720,736 | 18,748,124 | 30,136,217 | 1,916,839 | 1,860,368 | 3,749,624 | 2,739,656 |
| WELLS | | 7 | | 4 | 11 | | | | |
| FOOTAGE | 12,500 - 14,999 | 93,020 | | 54,706 | 147,726 | 13,288 | + | 13,676 | 13,429 |
| COSTS $ | | 11,933,848 | | 23,092,573 | 35,026,421 | 1,704,835 | + | 5,773,143 | 3,184,220 |
| WELLS | | 2 | | 2 | 4 | | | | |
| FOOTAGE | 15,000 - 17,499 | 30,809 | | 31,772 | 62,581 | 15,404 | + | 15,886 | 15,645 |
| COSTS $ | | 5,608,176 | | 14,607,631 | 20,215,807 | 2,804,088 | + | 7,303,815 | 5,053,951 |
| WELLS | | 1 | | 1 | 2 | | | | |
| FOOTAGE | 17,500 - 19,999 | 18,055 | | 17,500 | 35,555 | 18,055 | + | 17,500 | 17,777 |
| COSTS $ | | 8,848,360 | | 7,463,518 | 16,311,878 | 8,848,360 | + | 7,463,518 | 8,155,939 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 20,000 & OVER | | | 21,845 | 21,845 | + | + | 21,845 | 21,845 |
| COSTS $ | | | | 11,746,677 | 11,746,677 | + | + | 11,746,677 | 11,746,677 |
| TOTAL WELLS | | 69 | 92 | 117 | 278 | | | | |
| TOTAL FOOTAGE | | 437,058 | 592,784 | 632,591 | 1,662,433 | 6,334 | 6,443 | 5,406 | 5,979 |
| TOTAL COSTS $ | | 57,879,518 | 62,313,012 | 141,583,320 | 261,775,850 | 838,833 | 677,315 | 1,210,113 | 941,639 |

# ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 50

## WYOMING

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | AVERAGE DEPTH AND COST PER WELL: OIL | GAS | DRY | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| WELLS | | 38 | 4 | 16 | 58 | | | | |
| FOOTAGE | 0 - 1,249 | 25,035 | 1,428 | 13,532 | 39,995 | 658 | 357 | 845 | 689 |
| COSTS $ | | 1,875,652 | 70,850 | 852,923 | 2,799,433 | 49,359 | 17,714 | 53,307 | 48,266 |
| WELLS | | 9 | 3 | 19 | 31 | | | | |
| FOOTAGE | 1,250 - 2,499 | 17,892 | 6,548 | 36,051 | 60,491 | 1,988 | 2,182 | 1,897 | 1,951 |
| COSTS $ | | 1,883,306 | 391,095 | 3,628,931 | 5,903,332 | 209,256 | 130,365 | 190,996 | 190,430 |
| WELLS | | 35 | 6 | 24 | 65 | | | | |
| FOOTAGE | 2,500 - 3,749 | 113,172 | 20,463 | 74,839 | 208,474 | 3,233 | 3,410 | 3,118 | 3,207 |
| COSTS $ | | 11,410,466 | 1,577,890 | 5,850,696 | 18,839,052 | 326,013 | 262,981 | 243,779 | 289,831 |
| WELLS | | 60 | 4 | 42 | 106 | | | | |
| FOOTAGE | 3,750 - 4,999 | 267,711 | 17,805 | 179,589 | 465,105 | 4,461 | 4,451 | 4,275 | 4,387 |
| COSTS $ | | 23,642,323 | 2,332,034 | 15,479,353 | 41,453,710 | 394,038 | 583,008 | 368,556 | 391,072 |
| WELLS | | 165 | 31 | 101 | 297 | | | | |
| FOOTAGE | 5,000 - 7,499 | 1,005,127 | 201,277 | 658,068 | 1,864,472 | 6,091 | 6,492 | 6,515 | 6,277 |
| COSTS $ | | 75,849,378 | 24,287,835 | 36,905,021 | 137,042,234 | 459,693 | 783,478 | 365,396 | 461,421 |
| WELLS | | 187 | 48 | 209 | 444 | | | | |
| FOOTAGE | 7,500 - 9,999 | 1,633,074 | 431,502 | 1,802,998 | 3,867,574 | 8,733 | 8,989 | 8,626 | 8,710 |
| COSTS $ | | 127,095,242 | 62,647,846 | 85,998,644 | 275,741,732 | 679,653 | 1,305,163 | 411,476 | 621,039 |
| WELLS | | 65 | 88 | 78 | 231 | | | | |
| FOOTAGE | 10,000 - 12,499 | 710,750 | 987,281 | 843,601 | 2,541,632 | 10,934 | 11,219 | 10,815 | 11,002 |
| COSTS $ | | 90,812,278 | 135,792,915 | 54,177,484 | 280,782,677 | 1,397,111 | 1,543,101 | 694,583 | 1,215,509 |
| WELLS | | 13 | 26 | 16 | 55 | | | | |
| FOOTAGE | 12,500 - 14,999 | 169,848 | 340,501 | 221,277 | 731,626 | 13,065 | 13,096 | 13,829 | 13,302 |
| COSTS $ | | 25,846,603 | 61,312,228 | 33,959,686 | 121,118,517 | 1,988,200 | 2,358,162 | 2,122,480 | 2,202,154 |
| WELLS | | 5 | 9 | 9 | 23 | | | | |
| FOOTAGE | 15,000 - 17,499 | 82,579 | 145,278 | 144,320 | 372,177 | 16,515 | 16,142 | 16,035 | 16,181 |
| COSTS $ | | 30,695,267 | 36,154,891 | 36,686,299 | 103,536,457 | 6,139,053 | 4,017,210 | 4,076,255 | 4,501,585 |
| WELLS | | | 7 | 1 | 8 | | | | |
| FOOTAGE | 17,500 - 19,999 | | 128,664 | 18,508 | 147,172 | + | 18,380 | 18,508 | 18,396 |
| COSTS $ | | | 46,945,273 | 9,000,310 | 55,945,583 | + | 6,706,467 | 9,000,310 | 6,993,197 |
| WELLS | | | 4 | | 4 | | | | |
| FOOTAGE | 20,000 & OVER | | 82,298 | | 82,298 | + | 20,574 | + | 20,574 |
| COSTS $ | | | 37,776,072 | | 37,776,072 | + | 9,444,018 | + | 9,444,018 |
| TOTAL WELLS | | 577 | 230 | 515 | 1,322 | | | | |
| TOTAL FOOTAGE | | 4,025,188 | 2,363,045 | 3,992,783 | 10,381,016 | 6,976 | 10,274 | 7,752 | 7,852 |
| TOTAL COSTS $ | | 389,110,515 | 409,288,937 | 282,539,347 | 1,080,938,799 | 674,368 | 1,779,517 | 548,620 | 817,654 |

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 51

APPALACHIAN *

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | 809 | 52 | 26 | 887 | | | | |
| FOOTAGE | 0 - 1,249 | 701,378 | 51,686 | 20,018 | 773,082 | 866 | 993 | 769 | 871 |
| COSTS $ | | 16,464,074 | 3,025,711 | 538,651 | 20,028,436 | 20,351 | 58,186 | 20,717 | 22,579 |
| WELLS | | 665 | 578 | 73 | 1,316 | | | | |
| FOOTAGE | 1,250 - 2,499 | 1,252,749 | 1,173,759 | 146,712 | 2,573,220 | 1,883 | 2,030 | 2,009 | 1,955 |
| COSTS $ | | 37,355,683 | 53,317,984 | 6,187,599 | 96,861,266 | 56,173 | 92,245 | 84,761 | 73,602 |
| WELLS | | 747 | 1,297 | 91 | 2,135 | | | | |
| FOOTAGE | 2,500 - 3,749 | 2,380,820 | 4,330,602 | 289,456 | 7,000,878 | 3,187 | 3,338 | 3,180 | 3,279 |
| COSTS $ | | 76,343,382 | 147,981,767 | 8,702,099 | 233,027,248 | 102,199 | 114,095 | 95,627 | 109,146 |
| WELLS | | 315 | 1,692 | 74 | 2,081 | | | | |
| FOOTAGE | 3,750 - 4,999 | 1,381,144 | 7,178,086 | 311,755 | 8,870,985 | 4,384 | 4,242 | 4,212 | 4,262 |
| COSTS $ | | 40,960,660 | 235,555,123 | 8,508,299 | 285,024,082 | 130,033 | 139,216 | 114,977 | 136,964 |
| WELLS | | 191 | 755 | 46 | 992 | | | | |
| FOOTAGE | 5,000 - 7,499 | 1,034,577 | 4,091,525 | 255,436 | 5,381,538 | 5,416 | 5,419 | 5,552 | 5,424 |
| COSTS $ | | 31,986,301 | 130,414,755 | 8,174,257 | 170,575,313 | 167,467 | 172,734 | 177,701 | 171,950 |
| WELLS | | | 19 | 14 | 33 | | | | |
| FOOTAGE | 7,500 - 9,999 | | 162,081 | 123,649 | 285,730 | * | 8,530 | 8,832 | 8,658 |
| COSTS $ | | | 12,218,190 | 7,799,226 | 20,017,416 | * | 643,062 | 557,087 | 606,588 |
| WELLS | | | | | | | | | |
| FOOTAGE | 10,000 - 12,499 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 12,500 - 14,999 | | | 14,737 | 14,737 | * | * | 14,737 | 14,737 |
| COSTS $ | | | | 4,420,404 | 4,420,404 | * | * | 4,420,404 | 4,420,404 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 15,000 - 17,499 | | | 16,075 | 16,075 | * | * | 16,075 | 16,075 |
| COSTS $ | | | | 3,501,960 | 3,501,960 | * | * | 3,501,960 | 3,501,960 |
| WELLS | | | | | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| WELLS | | | | | | | | | |
| FOOTAGE | 20,000 & OVER | | | | | * | * | * | * |
| COSTS $ | | | | | | * | * | * | * |
| TOTAL WELLS | | 2,727 | 4,393 | 326 | 7,446 | | | | |
| TOTAL FOOTAGE | | 6,750,668 | 16,987,739 | 1,177,838 | 24,916,245 | 2,475 | 3,867 | 3,613 | 3,346 |
| TOTAL COSTS $ | | 203,110,100 | 582,513,530 | 47,832,495 | 833,456,125 | 74,481 | 132,600 | 146,725 | 111,933 |

*Includes New York, Ohio, Pennsylvania, and West Virginia

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 52

OFFSHORE FEDERAL WATERS *

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| WELLS | | | | | | | | | |
| FOOTAGE | 0 - 1,249 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | | | | | | |
| FOOTAGE | 1,250 - 2,499 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 2,500 - 3,749 | | | 3,631 | 3,631 | + | + | 3,631 | 3,631 |
| COSTS $ | | | | 534,058 | 534,058 | + | + | 534,058 | 534,058 |
| WELLS | | | | | | | | | |
| FOOTAGE | 3,750 - 4,999 | | | | | + | + | + | + |
| COSTS $ | | | | | | + | + | + | + |
| WELLS | | 1 | | 5 | 6 | | | | |
| FOOTAGE | 5,000 - 7,499 | 5,944 | | 34,240 | 40,184 | 5,944 | + | 6,848 | 6,697 |
| COSTS $ | | 2,766,970 | | 18,219,244 | 20,986,214 | 2,766,970 | + | 3,643,848 | 3,497,702 |
| WELLS | | | 1 | 2 | 3 | | | | |
| FOOTAGE | 7,500 - 9,999 | | 8,000 | 16,220 | 24,220 | + | 8,000 | 8,110 | 8,073 |
| COSTS $ | | | 4,499,126 | 5,753,585 | 10,252,711 | + | 4,499,126 | 2,876,792 | 3,417,570 |
| WELLS | | 8 | | 8 | 16 | | | | |
| FOOTAGE | 10,000 - 12,499 | 94,607 | | 89,199 | 183,806 | 11,825 | + | 11,149 | 11,487 |
| COSTS $ | | 39,411,746 | | 39,485,912 | 78,897,658 | 4,926,468 | + | 4,935,739 | 4,931,103 |
| WELLS | | 5 | 1 | 4 | 10 | | | | |
| FOOTAGE | 12,500 - 14,999 | 67,394 | 12,957 | 55,649 | 136,000 | 13,478 | 12,957 | 13,912 | 13,600 |
| COSTS $ | | 30,463,665 | 2,592,550 | 50,579,999 | 83,636,214 | 6,092,733 | 2,592,550 | 12,644,999 | 8,363,621 |
| WELLS | | | | 3 | 3 | | | | |
| FOOTAGE | 15,000 - 17,499 | | | 48,306 | 48,306 | + | + | 16,102 | 16,102 |
| COSTS $ | | | | 34,964,539 | 34,964,539 | + | + | 11,654,846 | 11,654,846 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 17,500 - 19,999 | | | 18,405 | 18,405 | + | + | 18,405 | 18,405 |
| COSTS $ | | | | 14,945,163 | 14,945,163 | + | + | 14,945,163 | 14,945,163 |
| WELLS | | | | 1 | 1 | | | | |
| FOOTAGE | 20,000 & OVER | | | 20,450 | 20,450 | + | + | 20,450 | 20,450 |
| COSTS $ | | | | 6,951,784 | 6,951,784 | + | + | 6,951,784 | 6,951,784 |
| TOTAL WELLS | | 14 | 2 | 25 | 41 | | | | |
| TOTAL FOOTAGE | | 167,945 | 20,957 | 286,100 | 475,002 | 11,996 | 10,478 | 11,444 | 11,585 |
| TOTAL COSTS $ | | 72,642,381 | 7,091,676 | 171,434,284 | 251,168,341 | 5,188,741 | 3,545,838 | 6,857,371 | 6,126,057 |

*Includes the following areas which are not shown separately: Offshore Federal Waters-Alaska and Offshore Federal Waters-Atlantic Coast

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1980

Table 53

GULF OF MEXICO - NORTHERN

| DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS | | | | AVERAGE DEPTH AND COST PER WELL | | | |
|---|---|---|---|---|---|---|---|---|
| | OIL WELLS | GAS WELLS | DRY HOLES | TOTAL | OIL | GAS | DRY | TOTAL |
| 0 - 1,249 | | | | | | | | |
| WELLS | | | | | * | * | * | * |
| FOOTAGE | | | | | * | * | * | * |
| COSTS $ | | | | | | | | |
| 1,250 - 2,499 | | | | | | | | |
| WELLS | | | | | * | * | * | * |
| FOOTAGE | | | | | * | * | * | * |
| COSTS $ | | | | | | | | |
| 2,500 - 3,749 | | | 1 | 1 | | | | |
| WELLS | | | 3,631 | 3,631 | * | * | 3,631 | 3,631 |
| FOOTAGE | | | 534,058 | 534,058 | * | * | 534,058 | 534,058 |
| COSTS $ | | | | | | | | |
| 3,750 - 4,999 | | | | | | | | |
| WELLS | | | | | * | * | * | * |
| FOOTAGE | | | | | * | * | * | * |
| COSTS $ | | | | | | | | |
| 5,000 - 7,499 | 1 | | 3 | 4 | | | | |
| WELLS | 5,944 | | 19,723 | 25,667 | 5,944 | * | 6,574 | 6,416 |
| FOOTAGE | 2,766,970 | | 7,031,081 | 9,798,051 | 2,766,970 | * | 2,343,693 | 2,449,512 |
| COSTS $ | | | | | | | | |
| 7,500 - 9,999 | | 1 | 2 | 3 | | | | |
| WELLS | | 8,000 | 16,220 | 24,220 | * | 8,000 | 8,110 | 8,073 |
| FOOTAGE | | 4,499,126 | 5,753,585 | 10,252,711 | * | 4,499,126 | 2,876,792 | 3,417,570 |
| COSTS $ | | | | | | | | |
| 10,000 - 12,499 | 8 | | 8 | 16 | | | | |
| WELLS | 94,607 | | 89,199 | 183,806 | 11,825 | * | 11,149 | 11,487 |
| FOOTAGE | 39,411,746 | | 39,485,912 | 78,897,658 | 4,926,468 | * | 4,935,739 | 4,931,103 |
| COSTS $ | | | | | | | | |
| 12,500 - 14,999 | 5 | 1 | | 6 | | | | |
| WELLS | 67,394 | 12,957 | | 80,351 | 13,478 | 12,957 | * | 13,391 |
| FOOTAGE | 30,463,665 | 2,592,550 | | 33,056,215 | 6,092,733 | 2,592,550 | * | 5,509,369 |
| COSTS $ | | | | | | | | |
| 15,000 - 17,499 | | | 1 | 1 | | | | |
| WELLS | | | 15,082 | 15,082 | * | * | 15,082 | 15,082 |
| FOOTAGE | | | 9,404,126 | 9,404,126 | * | * | 9,404,126 | 9,404,126 |
| COSTS $ | | | | | | | | |
| 17,500 - 19,999 | | | | | | | | |
| WELLS | | | | | * | * | * | * |
| FOOTAGE | | | | | * | * | * | * |
| COSTS $ | | | | | | | | |
| 20,000 & OVER | | | 1 | 1 | | | | |
| WELLS | | | 20,450 | 20,450 | * | * | 20,450 | 20,450 |
| FOOTAGE | | | 6,951,784 | 6,951,784 | * | * | 6,951,784 | 6,951,784 |
| COSTS $ | | | | | | | | |
| TOTAL WELLS | 14 | 2 | 16 | 32 | | | | |
| TOTAL FOOTAGE | 167,945 | 20,957 | 164,305 | 353,207 | 11,996 | 10,478 | 10,269 | 11,037 |
| TOTAL COSTS $ | 72,642,381 | 7,091,676 | 69,160,546 | 148,894,603 | 5,188,741 | 3,545,838 | 4,322,534 | 4,652,956 |

# APPENDICES

APPENDIX A **JOINT ASSOCIATION SURVEY ON DRILLING COSTS — 1980**

CONFIDENTIAL

WELLS DRILLED, FOOTAGE, AND COST IN THE U.S.

CONFIDENTIAL

PAGE

| OPERATOR NAME – WELL NUMBER – LEASE NAME | STATE | SHORE | OP CODE | WELL IDENTIFICATION NUMBER |
|---|---|---|---|---|
| ABC OIL COMPANY 1 J C KANE | MONTANA | ON | 999 | 25 017 23459 00 17 |

| TYPE | OIL ZONES | GAS ZONES | DEPTH | COMPLETION DATE | SECTION | TWP | RANGE | CDS | X COORD or LATITUDE | Y COORD or LONGITUDE |
|---|---|---|---|---|---|---|---|---|---|---|
| EXP-DRY | 0 | 0 | 3456 | 08/80 | 031 | 15-N | 053-E | | | |

| COUNTY NAME | LOCATION | TOTAL COST |
|---|---|---|
| CUSTER | 958 FNL 388 FWL | |

| OPERATOR NAME – WELL NUMBER – LEASE NAME | STATE | SHORE | OP CODE | WELL IDENTIFICATION NUMBER |
|---|---|---|---|---|
| ABC OIL COMPANY 3 HAYES | MONTANA | ON | 999 | 25 033 10432 00 17 |

| TYPE | OIL ZONES | GAS ZONES | DEPTH | COMPLETION DATE | SECTION | TWP | RANGE | CDS | X COORD or LATITUDE | Y COORD or LONGITUDE |
|---|---|---|---|---|---|---|---|---|---|---|
| DEV-OIL | 1 | 0 | 2335 | 04/80 | 017 | 019-N | 044-E | | | |

| COUNTY NAME | LOCATION | TOTAL COST |
|---|---|---|
| GARFIELD | 348 FSL 457 FWL | |

| OPERATOR NAME – WELL NUMBER – LEASE NAME | STATE | SHORE | OP CODE | WELL IDENTIFICATION NUMBER |
|---|---|---|---|---|
| ABC OIL COMPANY 2 B W BOWERS | MONTANA | ON | 999 | 25 083 22106 00 17 |

| TYPE | OIL ZONES | GAS ZONES | DEPTH | COMPLETION DATE | SECTION | TWP | RANGE | CDS | X COORD or LATITUDE | Y COORD or LONGITUDE |
|---|---|---|---|---|---|---|---|---|---|---|
| DEV-DRY | 0 | 0 | 10435 | 11/80 | 004 | 025-N | 055-E | | | |

| COUNTY NAME | LOCATION | TOTAL COST |
|---|---|---|
| RICHLAND | 120 FSL 234 FEL | |

| OPERATOR NAME – WELL NUMBER – LEASE NAME | STATE | SHORE | OP CODE | WELL IDENTIFICATION NUMBER |
|---|---|---|---|---|
| | | | | |

| TYPE | OIL ZONES | GAS ZONES | DEPTH | COMPLETION DATE | SECTION | TWP | RANGE | CDS | X COORD or LATITUDE | Y COORD or LONGITUDE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

| COUNTY NAME | LOCATION | TOTAL COST |
|---|---|---|
| | | |

| OPERATOR NAME – WELL NUMBER – LEASE NAME | STATE | SHORE | OP CODE | WELL IDENTIFICATION NUMBER |
|---|---|---|---|---|
| | | | | |

| TYPE | OIL ZONES | GAS ZONES | DEPTH | COMPLETION DATE | SECTION | TWP | RANGE | CDS | X COORD or LATITUDE | Y COORD or LONGITUDE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

| COUNTY NAME | LOCATION | TOTAL COST |
|---|---|---|
| | | |

| OPERATOR NAME – WELL NUMBER – LEASE NAME | STATE | SHORE | OP CODE | WELL IDENTIFICATION NUMBER |
|---|---|---|---|---|
| | | | | |

| TYPE | OIL ZONES | GAS ZONES | DEPTH | COMPLETION DATE | SECTION | TWP | RANGE | CDS | X COORD or LATITUDE | Y COORD or LONGITUDE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

| COUNTY NAME | LOCATION | TOTAL COST |
|---|---|---|
| | | |

| OPERATOR NAME – WELL NUMBER – LEASE NAME | STATE | SHORE | OP CODE | WELL IDENTIFICATION NUMBER |
|---|---|---|---|---|
| | | | | |

| TYPE | OIL ZONES | GAS ZONES | DEPTH | COMPLETION DATE | SECTION | TWP | RANGE | CDS | X COORD or LATITUDE | Y COORD or LONGITUDE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

| COUNTY NAME | LOCATION | TOTAL COST |
|---|---|---|
| | | |

INDIVIDUAL SUBMITTING REPORT: _____

TELEPHONE NUMBER: AC _____ _____

# INSTRUCTIONS AND DEFINITIONS FOR DRILLING COSTS

1. If a well shown on the computer listing was completed by you as operator in the survey year (whether actually drilled by you or drilled for you by a contractor), you only need to insert the total cost of the well as defined in Section 14 below.

2. Wells shown on the computer listing not actually completed by you during the calendar survey year should be deleted from the computer list. Please indicate the reason for the deletions.

3. If as operator, you completed wells in the calendar survey year not shown on the computer listing, such wells should be reported on the enclosed blank forms.

4. **WELLS TO BE REPORTED.** Report each domestic well completed by you as operator in the survey year (whether actually drilled by you or drilled for you by contractors). Report each well completed by you *as operator* regardless of the size of your working interest in the well. Do not report wells drilled by others in which you may have had only part of a working interest regardless of the size of such interest. Do not report wells started in the survey year or in prior years, but not completed as of December 31 of the survey year. Do not report wells reentered for completion at shallower depths, old wells drilled deeper, redrilled wells, old wells worked over, stratigraphic tests, core tests, or service wells (including input wells).

5. **SHORE.** Enter "OFF" if well is located offshore; enter "ON" if it is onshore. An offshore well is one which is bottomed at, or produces from, a point which lies seaward of the coastline. If a state agency uses a different basis for classifying onshore and offshore wells, the state classification should be used. In general, the term "coastline" means the line of ordinary low water along that portion of the coast which is in direct contact with the open sea or the line marking the seaward limit of inland waters. For purposes of the JAS, Cook Inlet (Alaska) is classified as "offshore."

6. **OP CODE.** Make no entry. The API will supply the operator code.

7. **WELL IDENTIFICATION NUMBER.** Enter the state designated API number if it is available. Where states do not assign API Well Numbers, or if you do not know the number, leave this item blank.

8. **TYPE.** Insert the classification for each well reported as either an exploratory (**EXPL**) or a development (**DEV**) well. Exploratory wells include new-field wildcats, new-pool wildcats, deeper-pool tests, shallower-pool tests, and outposts (extensions). Development wells include all wells drilled to produce oil or gas from pools discovered by previous drilling. (See attached diagram and definitions.) If your system of classification differs from that used by the **API-AAPG,** you may report wells on the basis of classification reflected in your accounts.

   Subclassify all wells as either (1) oil wells, (2) gas wells, or (3) dry holes, e.g. **"EXPL-OIL," "DEV-GAS,"** etc. An *oil well* is one which can produce hydrocarbons existing in the reservoir in liquid form. A *gas well* is one which can produce hydrocarbons existing initially in a gaseous phase in the reservoir. So-called gas condensate wells should be reported as gas wells. The state regulatory classification should be used, if available; if not available, use a classification by company engineers.

   Count *multiple completions* as one well. (See Number 9, OIL ZONES, GAS ZONES., for a definition of a multiple completion.)

9. **OIL ZONES, GAS ZONES.** Enter the total number of oil zones and gas zones in the appropriate space.

   As noted under Number 8, a multiple completion should be reported as one well. A multiple completion well is a well equipped to produce oil and/or gas separately from more than one reservoir. Such wells contain multiple strings of tubing or other equipment which permit production from the various completions to be measured and accounted for separately.

   Report a multiple completion well as an oil well if oil is produced from at least one of several zones, even though gas and gas condensate may be produced from one or more zones in the same well. Report a multiple completion well as a gas well if oil is not produced from any of the several zones.

   For a dry hole enter word **"DRY."**

10. **DEPTH.** Report for each well the total feet of penetration measured down the well bore. Include all plugged back footage, but exclude bypassed footage resulting from remedial sidetrack drilling operations. For *offshore wells* drilled from a platform or barge over water and the reference point is above water, the depth of the water is included in the total length of the well bore.

11. **COMPLETION DATE.** Enter month and year of completion.

12. **SECTION, TWP, RANGE.** Enter location data if appropriate for area.

13. **LOCATION.** Enter other available information that would be helpful in identifying well location.

14. **TOTAL COST.** Report the *total* cost (tangible and intangible) of each well completed by you as operator in the survey year (whether actually drilled by you or drilled for you by contractors). The *total* of such costs should be reported even though you as operator had only a part of a working interest in the well. Do not report the cost of wells drilled by others in which you had a working interest regardless of the size of such interest. The costs to be reported are those associated with wells which are completed during the survey year and the dollar amount to be reported is the accumulated cost of such wells from the time locations were made until the wells were completed as productive wells or abandoned after drilling was terminated because they were non-productive.

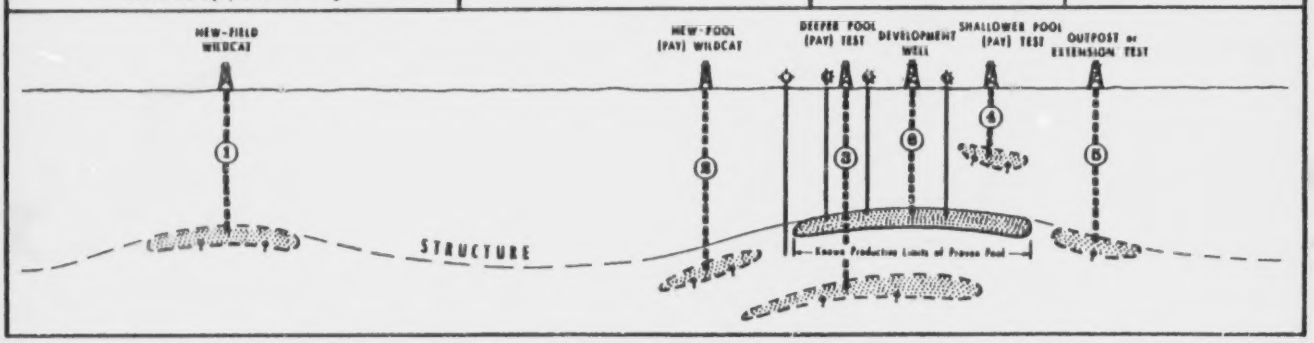
   In general, the elements contributing to reported cost are the expenditures for drilling dry holes and productive wells and equipping new productive wells through the Christmas tree installation. More specifically, these cost elements are the costs of labor, materials, supplies, water, fuels, power, and direct overhead (i.e., field, district, and regional), for such operations as site preparation, road building, erecting and dismantling derricks and drilling rigs, drilling hole, running and cementing casing, hauling materials, etc. Include the total cost of water, if purchased, or cost of water well, if drilled and chargeable to oil or gas well drilling operations. Well costs also include machinery and tool charges and rentals, and depreciation charges, where appropriate, for rigs and other equipment and facilities which will be used in drilling more than one well. Deduct the condition value of materials salvaged after use where appropriate.

   Do not report the cost of lease equipment such as artificial lift equipment and downhole lift equipment, flow lines, flow tanks, separators, etc., that are required for production. Do not reduce reported costs by test well, bottom hole, or dry hole contributions.

   For *offshore wells,* include costs on fixed platforms and islands. Where facilities serve more than one well, the costs should be allocated to each well on the basis of the operator's best current estimate of the ultimate number of wells that will use the facility. Also, include cost expirations (depreciation or amortization) for company-owned mobile platforms, barges, and tenders.

# AAPG and API Classification of Wells

| OBJECTIVE OF DRILLING | | | | INITIAL CLASSIFICATION ♦ WHEN DRILLING IS STARTED | FINAL CLASSIFICATION AFTER COMPLETION OR ABANDONMENT | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | SUCCESSFUL ● ✪ ✱ | | UNSUCCESSFUL ✧ | |
| Drilling for a new field on a structure or in an environment never before productive | | | | 1. NEW-FIELD WILDCAT | NEW-FIELD DISCOVERY WILDCAT | | DRY NEW-FIELD WILDCAT | |
| Drilling for a new pool on a structure or in a geological environment already productive | NEW POOL TESTS | Drilling outside limits of a proved area of pool | | 2. NEW-POOL (PAY) WILDCAT | NEW-POOL DISCOVERY WELLS (Sometimes extension wells) | NEW-POOL DISCOVERY WILDCAT (Sometimes an extension well) | DRY NEW-POOL TESTS | DRY NEW-POOL WILDCAT |
| | | Drilling inside limits of proved area of pool | For a new pool below deepest proven pool | 3. DEEPER POOL (PAY) TEST | | DEEPER POOL DISCOVERY WELL | | DRY DEEPER POOL TEST |
| | | | For a new pool above deepest proven pool | 4. SHALLOWER POOL (PAY) TEST | | SHALLOWER POOL DISCOVERY WELL | | DRY SHALLOWER POOL TEST |
| Drilling for long extension of a partly developed pool | | | | 5. OUTPOST or EXTENSION TEST | EXTENSION WELL (Sometimes a new-pool discovery well) | | DRY OUTPOST OR DRY EXTENSION TEST | |
| Drilling to exploit or develop a hydrocarbon accumulation discovered by previous drilling | | | | 6. DEVELOPMENT WELL | DEVELOPMENT WELL | | DRY DEVELOPMENT WELL | |




LAHEE CLASSIFICATION OF WELLS, AS APPLIED BY CSD

## Tests drilled with the intent of being completed as hydrocarbon producers if found

**NEW FIELD WILDCAT.** A new field wildcat is located far from producing pools, and on a structure which has not produced before. In regions where local structure has little or no control on accumulation, these holes are generally at least 2 miles from the nearest productive area. Distance, however, is not the determining factor. The classification is based on the degree of risk assumed by the operator, and his intention to test a structure or stratigraphic condition not previously proved productive.

**NEW-POOL (PAY) WILDCAT.** A new-pool wildcat is located to explore for new pools on a structure already producing, but off to one side of the presently producing area. In some regions where local structure is almost negligible as a control, exploration holes of this group may be called "near wildcats." Such will usually be less than 2 miles from the nearest productive area. Sometimes a new-pool wildcat may extend a pool already partly developed, if so its final classification is an Extension.

**DEEPER-POOL (PAY) TEST.** A deeper-pool test is an exploratory hole located within the productive area of a pool, or pools, already partly or wholly developed. It is drilled below the deepest such pool penetrated by it to explore for deeper unknown prospects. Sometimes such a hole extends a deeper pool which has been partly developed in another part of the field.

**SHALLOWER-POOL (PAY) TEST.** A shallower-pool test is exploratory only if drilled in search of some new productive reservoir, unknown but possibly suspected from data secured from other wells. The test must be located within the productive area of a pool, or pools, previously developed. Sometimes such a test extends a shallower-pool partly developed elsewhere in the same field.

**OUTPOST OR EXTENSION TEST.** An outpost is located and drilled with the expectation of extending for a considerable distance the productive area of a partly developed pool. It is usually two or more locations distant from the nearest productive area. Sometimes an outpost discovers a new pool.

**DEVELOPMENT WELL.** A well drilled to exploit a hydrocarbon accumulation discovered by previous drilling.

## Tests drilled without the intent of being completed for hydrocarbon production

**STRATIGRAPHIC TEST.** A drilling effort, geologically directed, to obtain information pertaining to a specific earth condition that might lead toward a possible accumulation of hydrocarbon. It must be drilled without the intention of being completed for hydrocarbon production. This classification includes tests identified as core tests by some operators.

**SERVICE WELL.** A well that is either drilled or completed for the purpose of supporting production of an existing field through observation, injection, water supply, etc.

**MISCELLANEOUS.** Any test drilled that does not fit one of the above classifications.

RECONCILIATION OF TOTAL 1980 U.S. WELLS AND FOOTAGE

QRDS vs. JAS

| | Oil Wells | | Gas Wells | | Dry Holes | | Total | |
|---|---|---|---|---|---|---|---|---|
| | No. | Footage | No. | Footage | No. | Footage | No. | Footage |
| QRDS-Exploratory Wells | 1,605 | 9,288,831 | 1,969 | 13,732,359 | 8,342 | 46,927,130 | 11,916 | 69,948,320 |
| QRDS-Development Wells | 25,421 | 100,249,736 | 13,761 | 71,310,386 | 9,747 | 42,952,537 | 48,929 | 214,512,659 |
| Total QRDS Wells | 27,026 | 109,538,567 | 15,730 | 85,042,745 | 18,089 | 89,879,667 | 60,845 | 284,460,979 |
| Adjustment Type I (Net) | +344 | +2,092,015 | −1,219 | −5,051,429 | −306 | −372,233 | −1,181 | −3,331,647 |
| Adjustment Type II (Net) | +1,183 | +5,435,585 | +714 | +5,828,332 | +450 | +3,637,707 | +2,347 | +14,901,624 |
| | 28,553 | 117,066,167 | 15,225 | 85,819,648 | 18,233 | 93,145,141 | 62,011 | 296,030,956 |

Note: Adjustments Type I and Adjustments Type II are outlined on page 2.

# SUMMARY OF SAMPLE DATA AS REPORTED

## FOR EXPLORATORY WELLS -- 1980

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS | GAS WELLS | DRY HOLES | AVERAGE DEPTH AND COST PER WELL: OIL | GAS | DRY |
|---|---|---|---|---|---|---|---|
| WELLS | | 10 | 4 | 40 | | | |
| FOOTAGE | 0 - 1,249 | 9,348 | 4,391 | 35,119 | 934 | 1,097 | 877 |
| COSTS $ | | 443,757 | 228,507 | 3,525,204 | 44,375 | 57,126 | 88,130 |
| WELLS | | 25 | 49 | 204 | | | |
| FOOTAGE | 1,250 - 2,499 | 47,921 | 94,561 | 393,706 | 1,916 | 1,929 | 1,929 |
| COSTS $ | | 2,311,572 | 5,186,583 | 18,263,435 | 92,462 | 105,848 | 89,526 |
| WELLS | | 72 | 80 | 393 | | | |
| FOOTAGE | 2,500 - 3,749 | 226,737 | 249,028 | 1,237,541 | 3,149 | 3,112 | 3,148 |
| COSTS $ | | 10,469,107 | 14,555,766 | 46,339,554 | 145,404 | 181,947 | 117,912 |
| WELLS | | 101 | 95 | 502 | | | |
| FOOTAGE | 3,750 - 4,999 | 443,738 | 417,287 | 2,198,418 | 4,393 | 4,392 | 4,379 |
| COSTS $ | | 20,198,245 | 18,702,136 | 76,948,130 | 199,982 | 196,864 | 153,283 |
| WELLS | | 171 | 133 | 803 | | | |
| FOOTAGE | 5,000 - 7,499 | 1,058,377 | 805,226 | 4,924,193 | 6,189 | 6,054 | 6,132 |
| COSTS $ | | 74,863,761 | 49,615,175 | 256,682,679 | 437,799 | 373,046 | 319,654 |
| WELLS | | 141 | 176 | 533 | | | |
| FOOTAGE | 7,500 - 9,999 | 1,196,734 | 1,536,756 | 4,608,577 | 8,487 | 8,731 | 8,646 |
| COSTS $ | | 119,051,822 | 147,379,145 | 356,512,371 | 844,339 | 837,381 | 668,878 |
| WELLS | | 83 | 142 | 415 | | | |
| FOOTAGE | 10,000 - 12,499 | 915,186 | 1,577,305 | 4,611,475 | 11,026 | 11,107 | 11,111 |
| COSTS $ | | 136,309,038 | 229,480,349 | 606,046,615 | 1,642,277 | 1,616,058 | 1,460,353 |
| WELLS | | 69 | 101 | 211 | | | |
| FOOTAGE | 12,500 - 14,999 | 926,667 | 1,363,363 | 2,866,192 | 13,429 | 13,498 | 13,583 |
| COSTS $ | | 161,483,192 | 341,338,023 | 574,407,440 | 2,340,336 | 3,379,584 | 2,722,310 |
| WELLS | | 11 | 54 | 118 | | | |
| FOOTAGE | 15,000 - 17,499 | 176,440 | 868,129 | 1,901,571 | 16,040 | 16,076 | 16,115 |
| COSTS $ | | 50,377,316 | 222,020,643 | 535,994,960 | 4,579,756 | 4,111,493 | 4,542,330 |
| WELLS | | 2 | 19 | 47 | | | |
| FOOTAGE | 17,500 - 19,999 | 35,890 | 355,570 | 870,701 | 17,945 | 18,714 | 18,525 |
| COSTS $ | | 18,757,360 | 105,587,521 | 245,609,207 | 9,378,680 | 5,557,237 | 5,225,727 |
| WELLS | | | 15 | 19 | | | |
| FOOTAGE | 20,000 & OVER | | 316,143 | 406,319 | * | 21,076 | 21,385 |
| COSTS $ | | | 128,381,088 | 179,584,630 | * | 8,558,739 | 9,451,822 |

SUMMARY OF SAMPLE DATA AS REPORTED

FOR DEVELOPMENT WELLS -- 1980

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS | GAS WELLS | DRY HOLES | AVERAGE DEPTH AND COST PER WELL: OIL | GAS | DRY |
|---|---|---|---|---|---|---|---|
| WELLS | | 1,329 | 35 | 117 | | | |
| FOOTAGE | 0 - 1,249 | 1,169,863 | 34,399 | 89,738 | 880 | 982 | 766 |
| COSTS $ | | 57,410,446 | 1,472,328 | 4,780,335 | 43,198 | 42,066 | 40,857 |
| WELLS | | 1,683 | 774 | 290 | | | |
| FOOTAGE | 1,250 - 2,499 | 3,076,634 | 1,639,564 | 558,646 | 1,828 | 2,118 | 1,926 |
| COSTS $ | | 147,041,283 | 53,434,361 | 15,628,147 | 87,368 | 69,036 | 53,890 |
| WELLS | | 2,024 | 825 | 564 | | | |
| FOOTAGE | 2,500 - 3,749 | 6,352,735 | 2,633,143 | 1,795,187 | 3,138 | 3,191 | 3,182 |
| COSTS $ | | 310,976,174 | 121,116,231 | 49,804,168 | 153,644 | 146,807 | 88,305 |
| WELLS | | 1,500 | 702 | 502 | | | |
| FOOTAGE | 3,750 - 4,999 | 6,693,462 | 3,077,200 | 2,168,847 | 4,462 | 4,383 | 4,320 |
| COSTS $ | | 327,758,942 | 156,164,862 | 64,066,944 | 218,505 | 222,457 | 127,623 |
| WELLS | | 1,980 | 1,444 | 632 | | | |
| FOOTAGE | 5,000 - 7,499 | 12,137,857 | 8,959,765 | 3,895,870 | 6,130 | 6,204 | 6,164 |
| COSTS $ | | 716,281,916 | 565,586,743 | 164,327,545 | 361,758 | 391,681 | 260,011 |
| WELLS | | 1,417 | 928 | 423 | | | |
| FOOTAGE | 7,500 - 9,999 | 12,336,968 | 8,006,163 | 3,671,926 | 8,706 | 8,627 | 8,680 |
| COSTS $ | | 1,025,106,287 | 785,886,734 | 245,306,035 | 723,434 | 846,860 | 579,919 |
| WELLS | | 464 | 647 | 251 | | | |
| FOOTAGE | 10,000 - 12,499 | 5,112,097 | 7,147,136 | 2,795,143 | 11,017 | 11,046 | 11,136 |
| COSTS $ | | 722,659,984 | 986,561,058 | 314,948,352 | 1,557,456 | 1,524,823 | 1,254,774 |
| WELLS | | 128 | 254 | 135 | | | |
| FOOTAGE | 12,500 - 14,999 | 1,702,675 | 3,444,409 | 1,832,278 | 13,302 | 13,560 | 13,572 |
| COSTS $ | | 307,005,636 | 607,261,102 | 265,277,755 | 2,398,481 | 2,390,791 | 1,965,020 |
| WELLS | | 33 | 113 | 54 | | | |
| FOOTAGE | 15,000 - 17,499 | 525,527 | 1,804,164 | 873,959 | 15,925 | 15,966 | 16,184 |
| COSTS $ | | 142,013,156 | 432,818,139 | 163,353,338 | 4,303,428 | 3,830,249 | 3,025,061 |
| WELLS | | 3 | 32 | 7 | | | |
| FOOTAGE | 17,500 - 19,999 | 54,966 | 595,794 | 127,034 | 18,322 | 18,618 | 18,147 |
| COSTS $ | | 14,962,312 | 180,967,323 | 24,550,328 | 4,987,437 | 5,655,228 | 3,507,189 |
| WELLS | | | 18 | 8 | | | |
| FOOTAGE | 20,000 & OVER | | 382,672 | 171,769 | * | 21,259 | 21,473 |
| COSTS $ | | | 149,535,539 | 53,514,244 | * | 8,307,529 | 6,689,280 |

# SUMMARY OF SAMPLE DATA AS REPORTED

## FOR SINGLE COMPLETION WELLS -- 1980

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: GAS WELLS | AVERAGE DEPTH AND COST PER WELL: OIL | AVERAGE DEPTH AND COST PER WELL: GAS |
|---|---|---|---|---|---|
| WELLS | 0 - 1,249 | 1,326 | 38 | 879 | 988 |
| FOOTAGE | | 1,165,898 | 37,554 | 43,047 | 42,716 |
| COSTS $ | | 57,080,672 | 1,623,224 | | |
| WELLS | 1,250 - 2,499 | 1,668 | 817 | 1,826 | 2,109 |
| FOOTAGE | | 3,046,059 | 1,723,525 | 87,438 | 71,234 |
| COSTS $ | | 145,847,403 | 58,198,587 | | |
| WELLS | 2,500 - 3,749 | 2,040 | 879 | 3,138 | 3,186 |
| FOOTAGE | | 6,401,817 | 2,800,887 | 153,995 | 143,437 |
| COSTS $ | | 314,151,777 | 126,081,143 | | |
| WELLS | 3,750 - 4,999 | 1,531 | 762 | 4,455 | 4,388 |
| FOOTAGE | | 6,821,482 | 3,343,718 | 217,436 | 212,424 |
| COSTS $ | | 332,895,227 | 161,867,726 | | |
| WELLS | 5,000 - 7,499 | 2,093 | 1,438 | 6,130 | 6,172 |
| FOOTAGE | | 12,830,686 | 8,870,214 | 364,241 | 385,810 |
| COSTS $ | | 762,357,237 | 554,795,920 | | |
| WELLS | 7,500 - 9,999 | 1,519 | 1,012 | 8,686 | 8,664 |
| FOOTAGE | | 13,194,244 | 8,768,231 | 723,335 | 839,353 |
| COSTS $ | | 1,098,746,098 | 849,425,568 | | |
| WELLS | 10,000 - 12,499 | 519 | 753 | 11,009 | 11,050 |
| FOOTAGE | | 5,713,811 | 8,321,110 | 1,518,788 | 1,519,018 |
| COSTS $ | | 788,251,291 | 1,143,820,671 | | |
| WELLS | 12,500 - 14,999 | 183 | 343 | 13,340 | 13,545 |
| FOOTAGE | | 2,441,275 | 4,646,064 | 2,331,538 | 2,634,831 |
| COSTS $ | | 426,671,483 | 903,747,189 | | |
| WELLS | 15,000 - 17,499 | 42 | 159 | 15,945 | 15,988 |
| FOOTAGE | | 669,692 | 2,542,247 | 4,273,943 | 3,964,662 |
| COSTS $ | | 179,505,623 | 630,381,282 | | |
| WELLS | 17,500 - 19,999 | 4 | 51 | 18,200 | 18,654 |
| FOOTAGE | | 72,801 | 951,364 | 6,217,828 | 5,618,722 |
| COSTS $ | | 24,871,312 | 286,554,844 | | |
| WELLS | 20,000 & OVER | | 31 | * | 21,151 |
| FOOTAGE | | | 655,705 | * | 8,640,662 |
| COSTS $ | | | 267,860,533 | | |

SUMMARY OF SAMPLE DATA AS REPORTED

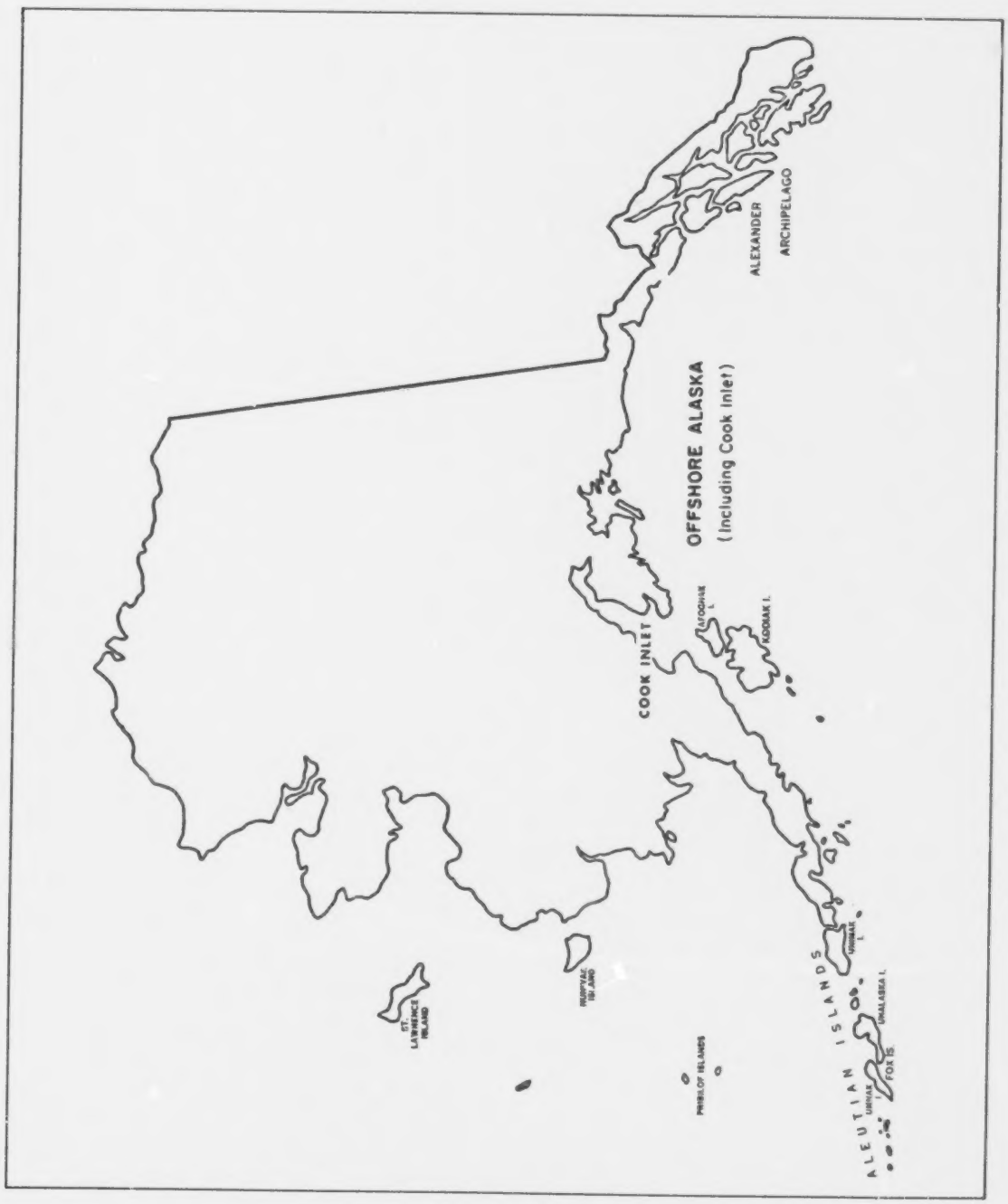
FOR MULTIPLE COMPLETION WELLS -- 1980

| | DEPTH INTERVAL (FEET) | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS | TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: GAS WELLS | AVERAGE DEPTH AND COST PER WELL: OIL | AVERAGE DEPTH AND COST PER WELL: GAS |
|---|---|---|---|---|---|
| WELLS | | 13 | | | |
| FOOTAGE | 0 - 1,249 | 13,313 | | 1,024 | + |
| COSTS $ | | 773,531 | | 59,502 | + |
| WELLS | | 40 | 6 | | |
| FOOTAGE | 1,250 - 2,499 | 78,496 | 10,600 | 1,962 | 1,766 |
| COSTS $ | | 3,505,452 | 422,357 | 87,636 | 70,392 |
| WELLS | | 56 | 26 | | |
| FOOTAGE | 2,500 - 3,749 | 177,655 | 81,284 | 3,172 | 3,126 |
| COSTS $ | | 7,293,504 | 9,590,854 | 130,241 | 368,879 |
| WELLS | | 70 | 35 | | |
| FOOTAGE | 3,750 - 4,999 | 315,718 | 150,769 | 4,510 | 4,307 |
| COSTS $ | | 15,061,960 | 12,999,272 | 215,170 | 371,407 |
| WELLS | | 58 | 139 | | |
| FOOTAGE | 5,000 - 7,499 | 365,548 | 886,777 | 6,302 | 6,394 |
| COSTS $ | | 28,788,440 | 60,407,998 | 496,352 | 434,589 |
| WELLS | | 39 | 92 | | |
| FOOTAGE | 7,500 - 9,999 | 339,458 | 774,708 | 8,704 | 8,420 |
| COSTS $ | | 45,412,011 | 83,640,311 | 1,164,410 | 911,307 |
| WELLS | | 28 | 36 | | |
| FOOTAGE | 10,000 - 12,499 | 313,472 | 403,331 | 11,195 | 11,203 |
| COSTS $ | | 70,717,731 | 72,220,736 | 2,525,633 | 2,006,131 |
| WELLS | | 14 | 12 | | |
| FOOTAGE | 12,500 - 14,999 | 188,067 | 161,708 | 13,433 | 13,475 |
| COSTS $ | | 41,817,345 | 44,851,936 | 2,986,953 | 3,737,661 |
| WELLS | | 2 | 8 | | |
| FOOTAGE | 15,000 - 17,499 | 32,275 | 130,046 | 16,137 | 16,255 |
| COSTS $ | | 12,884,849 | 24,457,500 | 6,442,424 | 3,057,187 |
| WELLS | | | | | |
| FOOTAGE | 17,500 - 19,999 | | | + | + |
| COSTS $ | | | | + | + |
| WELLS | | | 2 | | |
| FOOTAGE | 20,000 & OVER | | 43,110 | + | 21,555 |
| COSTS $ | | | 10,056,094 | + | 5,028,047 |

## J.A.S. SAMPLE DISTRIBUTION 1976–1980

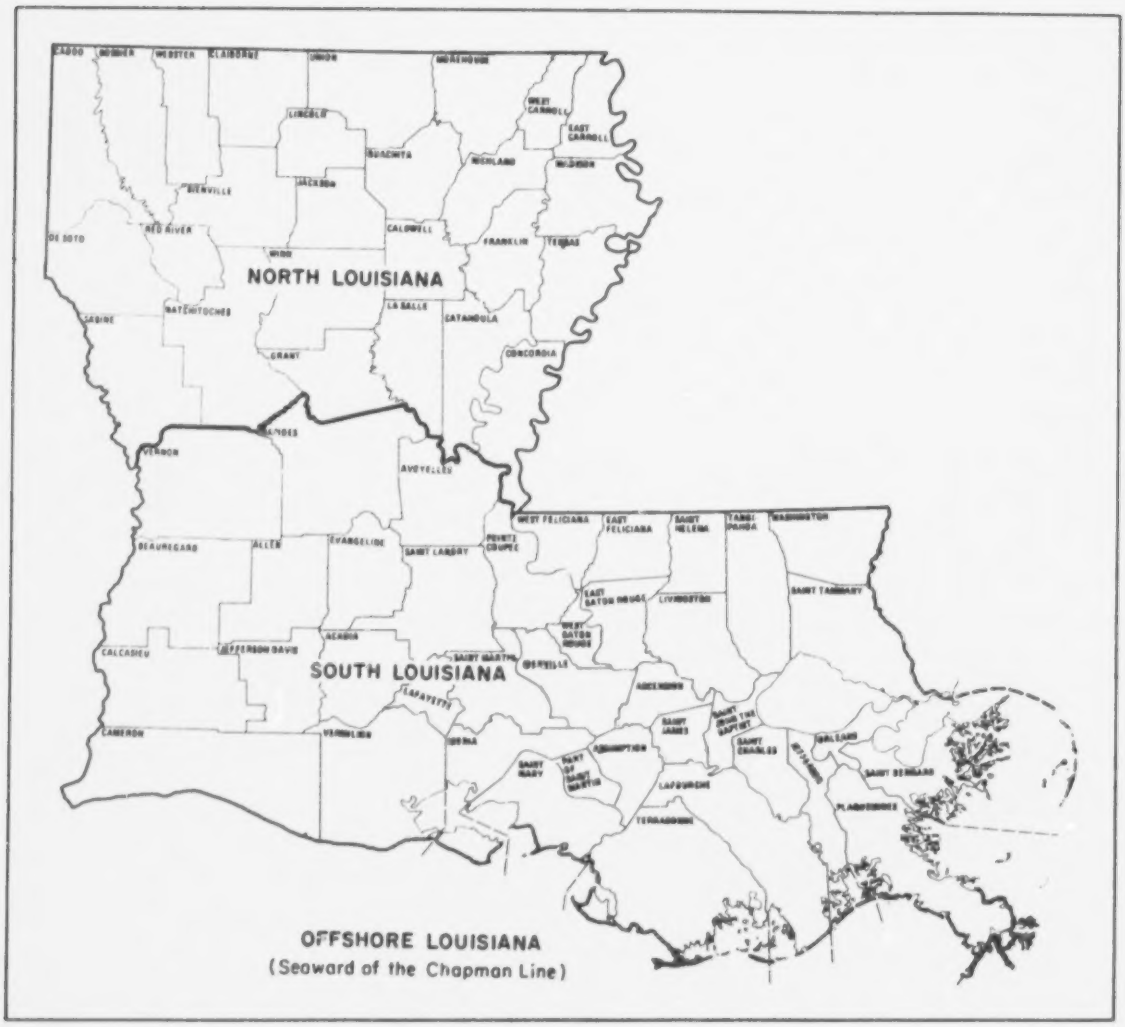
| No. of Wells Drilled | 1976 | | 1977 | | 1978 | | 1979 | | 1980 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. of Co's | No. of Wells | No. of Co's | No. of Wells | No. of Co's | No. of Wells | No. of Co's | No. of Wells | No. of Co's | No. of Wells |
| 1–4 | 366 | 777 | 506 | 1,045 | 510 | 1,061 | 590 | 1,198 | 527 | 1,129 |
| 5–9 | 169 | 1,108 | 206 | 1,348 | 235 | 1,557 | 240 | 1,608 | 223 | 1,519 |
| 10–24 | 187 | 2,729 | 215 | 3,337 | 227 | 3,487 | 196 | 2,931 | 232 | 3,445 |
| 25–49 | 84 | 2,770 | 86 | 2,850 | 87 | 2,994 | 92 | 3,156 | 98 | 3,418 |
| 50–99 | 34 | 2,388 | 38 | 2,529 | 39 | 2,738 | 32 | 2,245 | 43 | 2,976 |
| 100 & over | 24 | 7,872 | 31 | 9,211 | 36 | 9,786 | 31 | 9,434 | 38 | 11,667 |
| Total | 864 | 17,644 | 1,082 | 20,320 | 1,134 | 21,623 | 1,181 | 20,572 | 1,161 | 24,154 |

# MAP I
# SUBDIVISIONS OF ALASKA



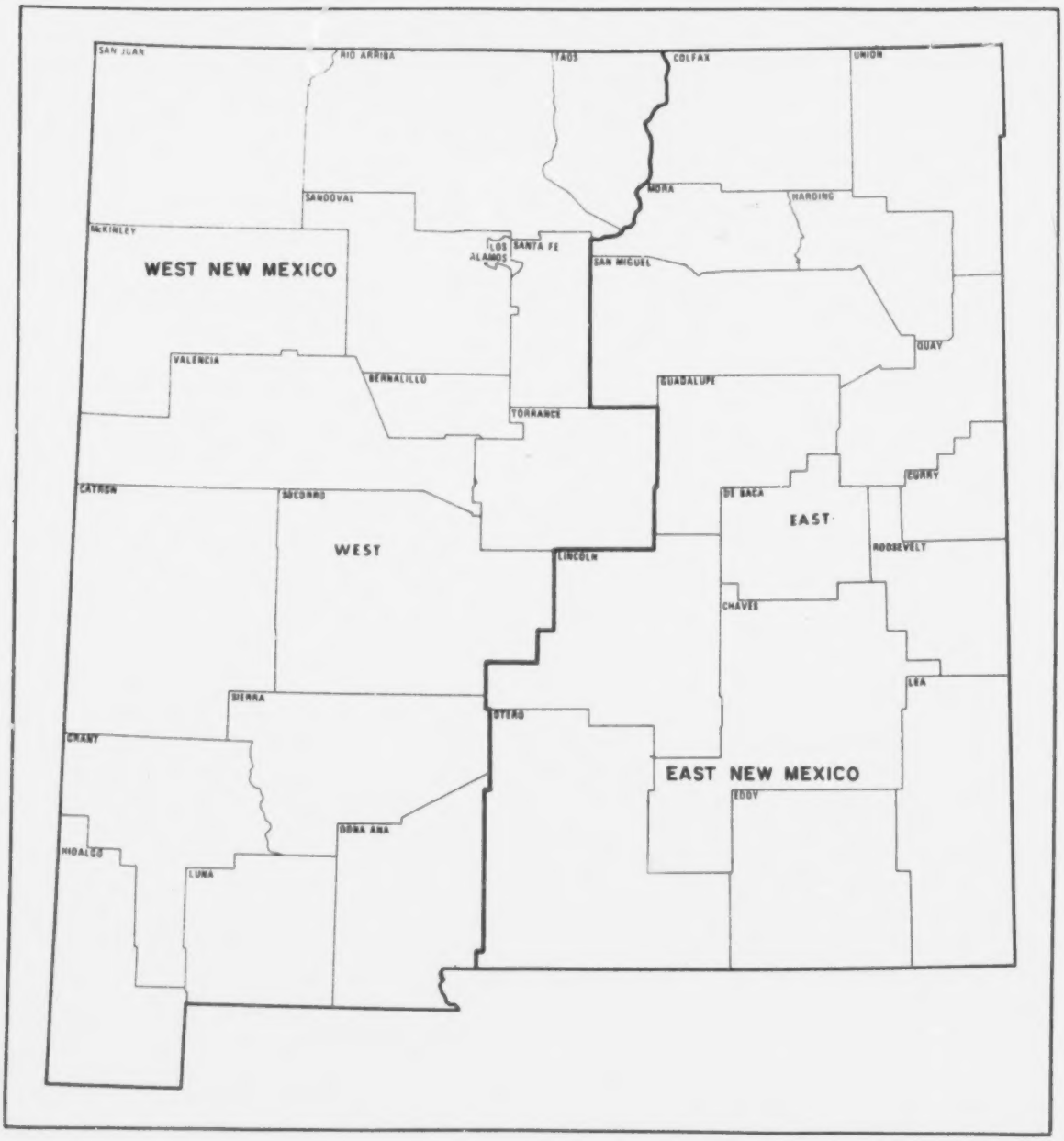
# MAP II
# SUBDIVISIONS OF CALIFORNIA

# MAP III
# SUBDIVISIONS OF LOUISIANA



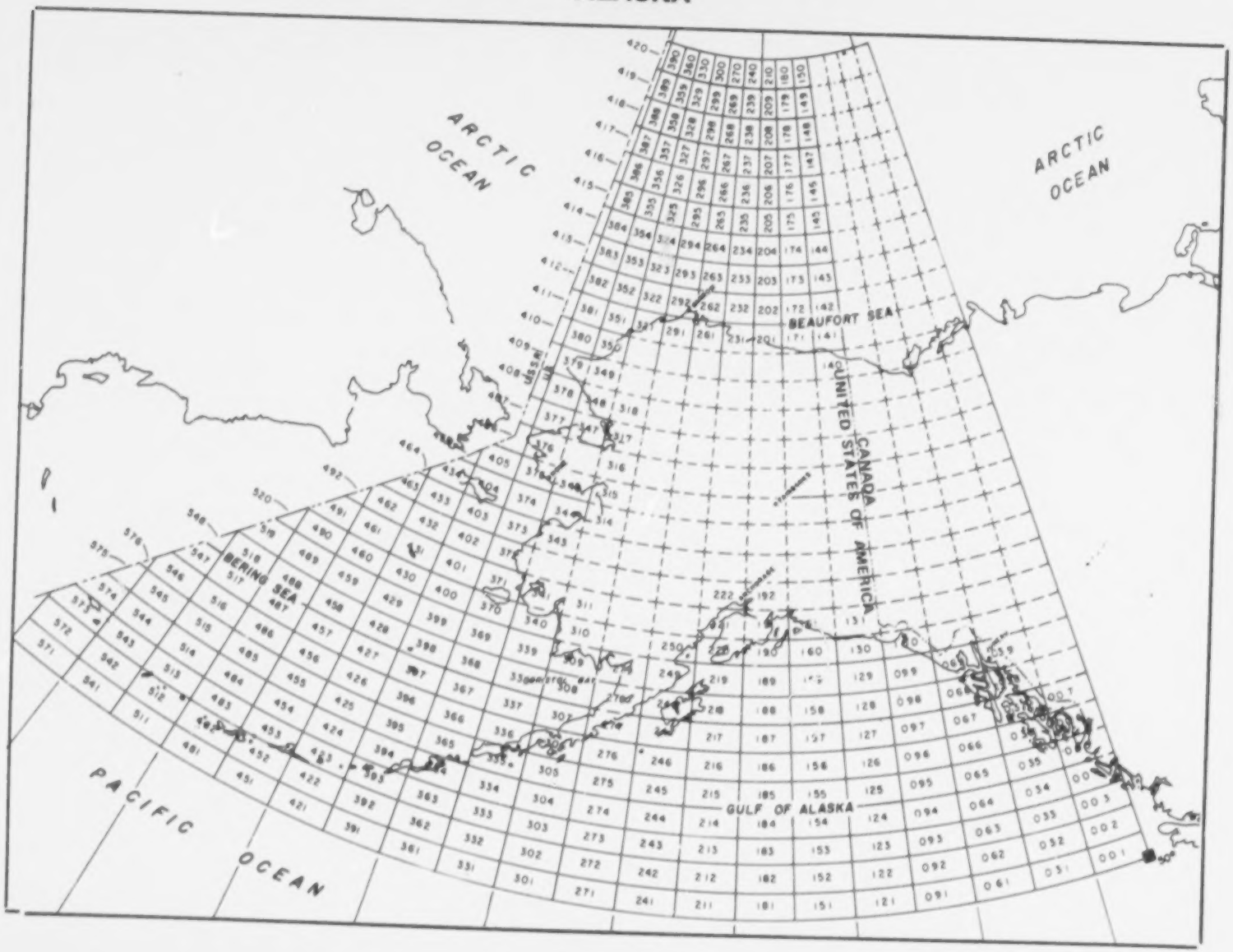
APPENDIX G, P. 4

# MAP IV
# SUBDIVISIONS OF NEW MEXICO



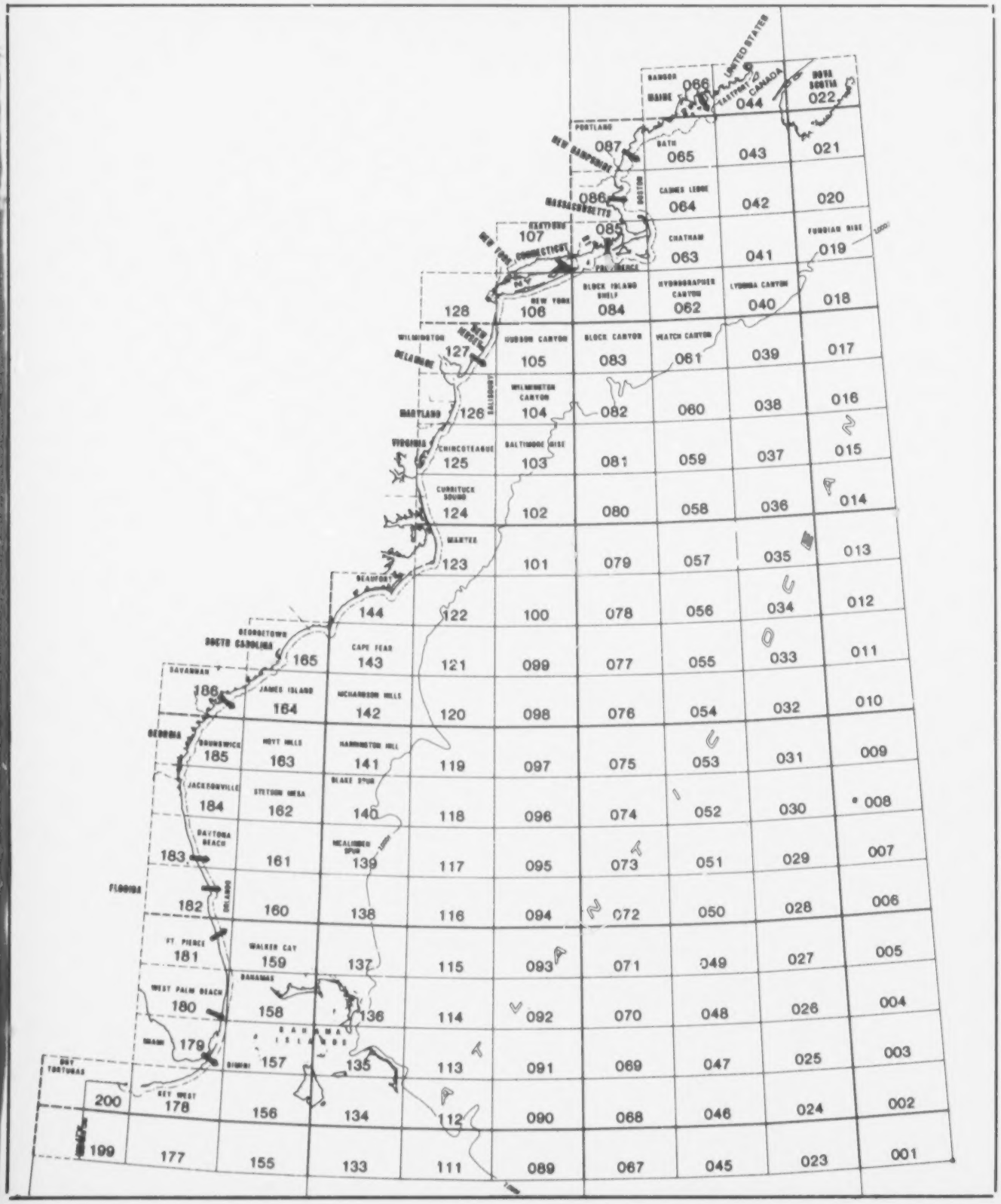
# MAP V
# SUBDIVISIONS OF TEXAS

# MAP VI
# SUBDIVISIONS OF
# OFFSHORE FEDERAL WATERS
# ALASKA

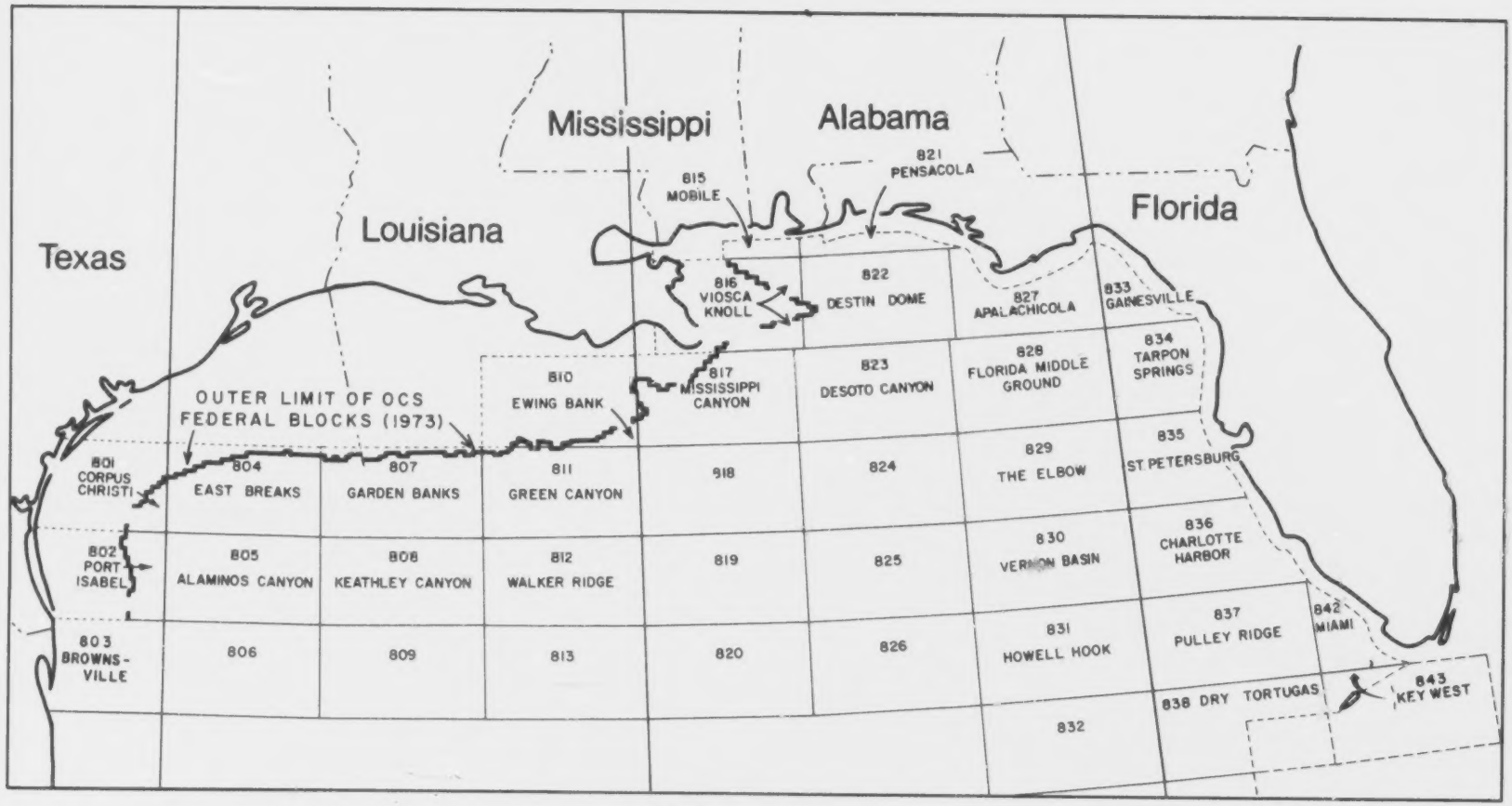


# MAP VII
# SUBDIVISIONS OF OFFSHORE FEDERAL WATERS
# ATLANTIC COAST





# MAP VIII
# SUBDIVISIONS OF
# OFFSHORE FEDERAL WATERS
# GULF OF MEXICO—Northern



# JOINT ASSOCIATION SURVEY METHODOLOGY

API publishes annual estimates of drilling costs in the U.S. based on a sample of approximately 39 percent of all wells drilled and 61 percent of total drilling costs. The results, published in the Joint Association Survey (JAS), show estimated average drilling costs and total drilling expenditures by state (or other political region), by depth, and by well type. API has cost data only for those wells within the JAS sample. Drilling costs for wells not in the sample must be estimated using the information available from other sources on their depth, location, and well type, and the relationship of these variables to drilling cost as observed in the sample.

**REGRESSION ESTIMATES OF WELL COSTS.** The current JAS methodology, implemented in the 1978 survey, estimates these nonsample costs using standard multiple regression analysis. A ''best fit'' equation is estimated from the sample data for a given area, and this equation is then used to estimate the cost of nonsample wells based on their depth, location, and well type.

The particular functional form for the regression equation is:

(1) $$\log(\text{cost per foot}) = a + b\ 1/\text{depth} + c\ \text{depth} + d\ \text{depth}^2 + p_1 I_1 + \ldots + p_9 I_9$$

where depth is in thousands of feet and $I_1$ through $I_9$ are indicator variables for well type.[1]

Except for the 1/depth term, this equation is a polynomial, a functional form often used in regression analysis when an *a priori* functional form has not been specified. (Higher order polynomials were investigated but did not improve the fit noticeably). The 1/depth term helps to reflect the decreasing cost per foot observed in the shallower depths in some areas. (As depth increases, 1/depth gets smaller, so that this term's contribution to estimated cost per foot can be larger for shallower depths but quite small at greater depths).

The inclusion of indicator variables allows the level of costs to vary by well type. Since the above equation is in log form, this means that different well types are estimated to be proportional to one another, with the proportions being determined by the regression coefficients of the indicator variables. (When oil, gas, or dry data are regressed separately, fewer indicator variables are needed since there are fewer well types involved in each regression).

[1] An indicator variable takes on the value 1 if the observation is a member of a certain class and 0 if it is not. In the above equation, the nine indicator variables identify whether a well is one of the ten well types (for example, exploratory oil single completion, development gas multiple completion, exploratory dry, and so on). The tenth well type is identified when all indicator variables are 0.

Because equation (1) is in log form, estimates based on it will be biased downwards. Multiplying the original estimates by the correction factor

(2) $$\frac{\text{sum of actual costs for sample}}{\text{sum of estimated costs for sample}}$$

yields unbiased estimates.

**PROCEDURE.** Once the JAS sample data have been collected and verified, regression estimates for each geographic area are made using equations (1) and (2). In some areas, oil, gas, and dry wells are combined in one equation. When the sample is large enough, a separate equation is used for each of these three well categories. Inevitably, some nonsample wells fall outside the depth range of the sample. Since, statistically speaking, there is no reason to expect the regression estimates to be "reasonable" for these depths where there is no sample, some of these costs must be estimated independently based on costs in similar areas and previous year's data. Wells for which this is necessary account for a few percent (2.3% in the 1980 JAS) of the JAS universe.